

# RECORDATION FORM COVER SHEET PATENTS ONLY

MSFT-2566

To The Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies).

Hai Liu 10/31/03  
First Assignor Date of Execution

Lauren Antonoff 11/3/03  
Second Assignor Date of Execution

Third Assignor Date of Execution

Fourth Assignor Date of Execution

Fifth Assignor Date of Execution

Sixth Assignor Date of Execution

Additional name(s) of conveying party(ies) attached? ☐ YES ☒ NO

2. Name and address of receiving party(ies)

Name: Microsoft Corporation

Street Address: One Microsoft Way

City: Redmond

State Washington ZIP 98052

Additional name(s) & address attached? ☐ YES ☒ NO

3. Nature of Conveyance (check only one):

- ☒ New Assignment ☐ Merger  
☐ License Agreement ☐ Security Agreement  
☐ Change of Name ☐ Other:

4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos :  
10/702,863

Patent Nos.:

Date application was signed by the first  
named executing inventor

(Fill-in this date only if assignment is filed  
together with a new application)

5. Name and address of party to whom correspondence concerning documents should be mailed:

Name: Jonathan M. Waldman  
WOODCOCK WASHBURN LLP  
One Liberty Place - 46th Floor  
Philadelphia, Pennsylvania 19103-7301  
215-568-3100

6. Total number of applications and patents involved. one

7 Total fee (37 CFR 3.41): \$40.00  
☐ Enclosed  
☒ Authorized to be charged to Deposit Account Number  
23-3050

8 Please charge any deficiency or credit any overpayment to  
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9 Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Louise H. Ochroch

Name of Person Signing.

Signature

Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 3

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

PATENT

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Serial Number.....Not yet assigned  
Filing Date.....Herewith  
Inventorship.....Hai Lin, et al.  
Applicant.....Microsoft Corporation  
Attorney's Docket No. ....MSFT-2566  
Title: **OPTIMIZING FILE REPLICATION USING BINARY COMPARISONS**

**PATENT ASSIGNMENT****PARTIES TO THE ASSIGNMENT****Assignor(s):**

Hai Liu  
4850 156<sup>th</sup> Avenue, #280  
Redmond, Washington 98052

Lauren Antonoff  
1635 35<sup>th</sup> Avenue  
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**Assignee:**

Microsoft Corporation  
Corporation in the State of Washington  
One Microsoft Way  
Redmond, WA 98052

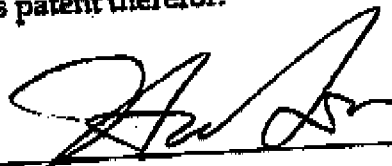
**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled as described and claimed in the specification forming part of an application for United States letters patent referenced above;


WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

10/31/2003  
Date

  
Hai Liu

11/3/03  
Date

  
Lauren Antonoff