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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

## 1. Name of conveying party(ies):

Zhang, Zhengyou  
Liu, Zicheng  
Shan, Ying9-26-02  
4-24-02

## 2. Name and address of receiving party(ies)

Name: Microsoft Corporation

Internal Address:

Patenting Group Docketing Department

Street Address: One Microsoft Way

City: Redmond State: WA Zip: 98052

Additional name(s) & address(es) attached? ☐ Yes ☒ NoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☐ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 4/19/02 and 4/23/02

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 4/19/02

A. Patent Application No.(s)

10,131,972

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

Name: Lyon &amp; Harr, LLP

Internal Address: Attn: Katrina A. Lyon

Street Address: 300 Esplanade Drive

Suite 800

City: Oxnard State: Ca Zip: 93030

## 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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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.

Katrina A. Lyon, Reg No. 42,821

Name of Person Signing

Katrina A. Lyon

Signature

4/24/02

Date

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

04/29/2002 EHAILE1 00000063 10131972

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PATENT  
REEL: 013317 FRAME: 0628

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

Inventorship.....Zhang, et al  
Applicant.....Microsoft Corporation  
Attorney's Docket No. ....MCS-003-02/171928.1  
Title: A SYSTEM AND METHOD FOR EXPRESSION MAPPING

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

Zhengyou Zhang  
10090 177th Ave NE  
Redmond, WA 98052

Zicheng Liu  
14743 SE 63rd Street  
Bellevue, WA 98006

Ying Shan  
2504 Pheasant Hollow Drive  
Plainsboro, NJ 08536

**Assignee:**

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

**AGREEMENT**

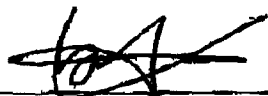
WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "A SYSTEM AND METHOD FOR EXPRESSION MAPPING" as described and claimed in the specification forming part of an application for United States letters patent referenced above;

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.

4/19/2002

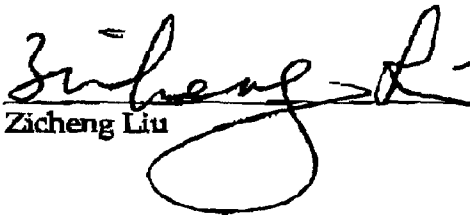
Date



Zhengyou Zhang

4/19/2002

Date



Zicheng Liu

Date

Ying Shan

**Inventorship** ..... Zhang, et al  
**Applicant** ..... Microsoft Corporation  
**Attorney's Docket No.** ..... MCS-003-02/171928.1  
**Title:** A SYSTEM AND METHOD FOR EXPRESSION MAPPING

**PATENT ASSIGNMENT**

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**Assignor(s):**

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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.

Date

Zhengyou Zhang

Date

Zicheng Liu

Date

04/23/02

Ying Shan