

09-26-2002

U.S. Department of Commerce  
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- ☐ New
- ☐ Resubmission (Non-Recordation)
- Document ID #
- ☐ Correction of PTO Error
- Reel #                      Frame #
- ☒ Corrective Document
- Reel #012913              Frame #0883

9-23-02

**Conveyance Type**

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

**Conveying Party(ies)**

1. QIU, Lili
2. BAHL, Paramvir
3. ADYA, Atul
- 4.
- 5.
- 6.

**Execution Date(s)**

May 13, 2002

May 13, 2002

May 13, 2002

☐ Mark if Additional Names of Conveying Parties Attached**Receiving Party**

Name                      Microsoft Corporation

Name

Address                      One Microsoft Way

Address

Address                      Redmond

Washington

City                      State/Country

98052

Zip Code

☐ Mark if Additional Names of Receiving Parties Attached**Correspondent Name and Address**

Phillip M. Pippenger

Leydig, Voit & Mayer, Ltd.

Two Prudential Plaza, Suite 4900

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Attorney Docket No. 215107

**Pages** Enter the total number of pages of the attached conveyance document including any attachments: 6**Application Number(s) or Patent Number(s)**☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Numbers****Patent Numbers**

10/144,518

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**Enter PCT application number *only if* a U.S. Application Number has not been assigned.

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**Number of Properties**

Enter the total number of properties involved: 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$40.00

Method of Payment:

- ☐ Enclosed is a check in the amount of
- ☒ Charge Deposit Account No. 12-1216

Authorization to Charge Additional Fees to Deposit Account No. 12-1216: ☐ Yes ☐ No**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. Charges to deposit account are authorized, as indicated herein.

Phillip M. Pippenger, Reg. No. 46055

Name of Person Signing

Signature

September 18, 2002

Date

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**PATENT**

**REEL: 013313 FRAME: 0843**

05/24/2002

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U.S. Department of Commerce  
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PATENT

TO: The Commissioner of Patents and Tr.

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Original document(s) or copy(ies)

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Telephone: (312) 616-5600  
 Facsimile: (312) 616-5700  
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Name of Person Signing

Signature

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Date

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JCS43 U.S. PTO  
 10/144518  
 06/13/02

PATENT  
 REEL: 013313 FRAME: 0844

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventorship ..... QIU, et al.  
Applicant ..... Microsoft Corporation  
Attorney's Docket No. .... 215107  
Title: ADAPTIVE ALLOCATION OF LAST-HOP BANDWIDTH BASED ON MONITORING  
OF END-TO-END THROUGHPUT

## PATENT ASSIGNMENT

### PARTIES TO THE ASSIGNMENT

#### Assignor(s):

Lili Qiu  
15318 NE 13<sup>th</sup> Place, Apt. 2202  
Bellevue, Washington, 98007

Paramvir Bahl  
2221 271<sup>st</sup> Ct, SE  
Sammamish, Washington, 98075

Atul Adya  
14590 NE 35<sup>th</sup> Street, Apt. D204  
Bellevue, Washington, 98007

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

" ADAPTIVE ALLOCATION OF LAST-HOP BANDWIDTH BASED ON MONITORING  
OF END-TO-END THROUGHPUT," 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.

May 13, 2002  
Date

W. H. Orr  
Lili Qiu

                      
Date

                      
Paramvir Bahl

                      
Date

                      
Atul Adya

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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

Lili Qiu

5/13/02

Date

Paramvir Bahl

Paramvir Bahl

5/13/2002

Date

Atul Adya

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