

10-27-2003

10/15/03



EV355229269

Form PTO-1595
(Rev. 03/01)102584018
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Yong Rui
Andres Vega-Garcia

2. Name and address of receiving party(ies)

Name: Microsoft Corporation

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Street Address: One Microsoft Way

City: Redmond State: WA Zip: 98052

Execution Date: 10/1/03; 10/3/03

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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: 10/1/03

A. Patent Application No.(s)

10/686160

B. Patent No.(s)

10/3/03

Additional numbers attached? ☐ Yes ☒ No

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

Name: Lewis C. Lee, Reg. No. 34,656

Internal Address: Lee & Hayes, PLLC

Street Address: 421 West Riverside Avenue

Suite 500

City: Spokane State: WA Zip: 99201

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number: 12-0769

(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.

Lewis C. Lee, Reg. No. 34,656

Name of Person Signing

Signature

10/15/2003

Date

Total number of pages including cover sheet, attachments, and documents: 5

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

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Alexandria, VA 22313-1450PATENT
REEL: 014616 FRAME: 0593

EV 355 22 926 9

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....
Filing Date.....
Inventorship..... Rui et al.
Applicant..... Microsoft Corporation
Attorney's Docket No. MS1-1675US
MSDocket No..... 305556.01
Title: Methods And Systems For Estimating Network Available Bandwidth Using Packet Pairs
And Spatial Filtering

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Yong Rui
2508 239th Place NE
Sammamish, WA 98074

Andres Vega-Garcia
7302 127th Place SE
Newcastle, WA 98056

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
"Methods And Systems For Estimating Network Available Bandwidth Using Packet Pairs And
Spatial Filtering," 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.

Date
10/03/2003
Date

Yong Rui
Vega
Andres Vega-Garcia

Attorney Docket No. MS1-1675US
MS Docket No. 305556.01

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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 "Methods And Systems For Estimating Network Available Bandwidth Using Packet Pairs And Spatial Filtering," 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.

10/1/03
Date


Yong Rui

Date

Andres Vega-Garcia