



101884995

.Y 10.15.01

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

1. Name of Conveying Party(ies):  
Paramvir Bahl  
Li Li  
Yi-Min Wang  
Roger Wattenofer  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: Microsoft Corporation  
Internal Address:  
Street Address: One Microsoft Way  
City: Redmond State: WA Zip: 98052  
Additional names(s) & address(es) attached:  Yes  No  
15 2001

3. Nature of conveyance:  
 Assignment  Security Agreement  
 Merger  Change of Name  
 Other  
Execution Date: 8/23/01; 8/27/01; 9/4/01

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: 8/23/01; 8/27/01; 9/4/01  
A. Patent Application No.(s):  
Additional numbers attached:  Yes  No

B. Patent No.(s)  
09975846  
Additional numbers attached:  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Brian G. Hart  
Internal Address: Lee & Hayes, PLLC  
Street Address: 421 W. Riverside Ave  
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:

01 FD:581 40.00 DT DO NOT USE THIS SPACE

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.  
Brian G. Hart  
Name of Person Signing  
  
Signature  
10.12.01  
Date

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

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

Serial Number .....09/925,846  
Filing Date ..... 8/07/01  
Inventorship ..... Bahl et al.  
Applicant ..... Microsoft Corporation  
Attorney's Docket No. .... MS1-628US  
Title: Distributed Topology Control for Wireless Multi-Hop Sensor Networks

**PATENT ASSIGNMENT**

**PARTIES TO THE ASSIGNMENT**

**Assignor(s):**

Paramvir Bahl  
2221 271<sup>st</sup> Court SE  
Issaquah, Washington 98029

Li Li  
50 Gill Lane, Apt. 2G  
Iselin, New Jersey 08830

Yi-Min Wang  
15802 SE 58<sup>th</sup> Street  
Bellevue, Washington 98006

Roger Wattenhofer  
503 6<sup>th</sup> Avenue, Apt. C401  
Kirkland, Washington 98033

**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 "Distributed Topology Control for Wireless Milt-Hop Sensor Networks," 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;

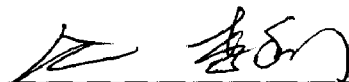
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted 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

\_\_\_\_\_  
Paramvir Bahl

09/04/01  
\_\_\_\_\_

Date

  
\_\_\_\_\_

Li Li

\_\_\_\_\_  
Date

\_\_\_\_\_  
Yi-Min Wang

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roger P. Wattenhofer

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

Serial Number .....09/925,846  
Filing Date ..... 8/07/01  
Inventorship ..... Bahl et al.  
Applicant ..... Microsoft Corporation  
Attorney's Docket No. ....MS1-628US  
Title: Distributed Topology Control for Wireless Multi-Hop Sensor Networks

**PATENT ASSIGNMENT**

**PARTIES TO THE ASSIGNMENT**

Assignor(s):

Paramvir Bahl  
2221 271<sup>st</sup> Court SE  
Issaquah, Washington 98029

Li Li  
50 Gill Lane, Apt. 2G  
Iselin, New Jersey 08830

Yi-Min Wang  
15802 SE 58<sup>th</sup> Street  
Bellevue, Washington 98006

Roger Wattenhofer  
503 6<sup>th</sup> Avenue, Apt. C401  
Kirkland, Washington 98033

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 "Distributed Topology Control for Wireless Milt-Hop Sensor Networks," 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.

Aug 27, 2001  
Date

Paramvir Bahl  
Paramvir Bahl

\_\_\_\_\_  
Date

\_\_\_\_\_  
Li Li

Aug 23, 2001  
Date

Yimin Wang  
Yimin Wang

Aug 27, 2001  
Date

R. P. Wattenhofer  
Roger P. Wattenhofer