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Atty. Docket No.: MS-77/4(116650.4)

To the Honorable Commissioner of Patents and Trademarks, please forward the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**Alessandro FORIN**  
**Andrew RAFFMAN**

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

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: **September 8, 1999**

2. Name and address of receiving party(ies):  
Name: **Microsoft Corporation**  
Address:  
Street Address: **One Microsoft Way**  
City: **Redmond** State: **WA** ZIP: **98052**

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: **September 8, 1999**

A. Patent Application No.(s) B. Patent No.(s) **09392405**

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Peter L. Michaelson, Esq.**  
**MICHAELSON & WALLACE**  
**Customer No. 007265**  
Internal Address: **PO Box 8489**  
Street Address: **Parkway 109 Office Center**  
**328 Newman Springs Rd.**  
City: **Red Bank** State: **NJ** ZIP: **07701**

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41).....\$ 40.00  
 Included with Filing Fees  
 Any additional fees required are authorized to be charged to the deposit account listed below.

8. Deposit account number:  
**50-0463**

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

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9. Statement and signature  
I hereby declare under penalty of perjury that I have knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document

**Peter L. Michaelson** **September 9, 1999**  
Name of Person Signing Signature Date

Total number of pages comprising cover sheet plus assignment: **4**

OMB No. 0651-0011(exp.4/94) Do not detach this portion

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ASSIGNMENT

WHEREAS, we, **Alessandro FORIN** and **Andrew RAFFMAN** (hereinafter referred to as ASSIGNORS), having post office address of **2321 179<sup>th</sup> Ave. NE, Redmond, WA, 98052** and **17835 NE 205<sup>th</sup> St., Woodinville, WA, 98072**, respectively, are the joint inventors of an invention entitled:

**NON-BLOCKING CONCURRENT QUEUES WITH  
DIRECT NODE ACCESS BY THREADS**

as described and claimed in the specification forming part of an application for United States letters patent executed herewith;

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 goods and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said 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 ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS 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.

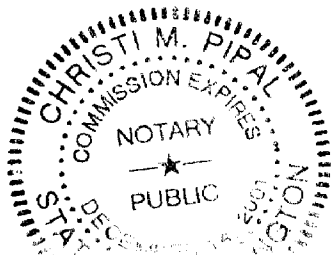
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 8<sup>th</sup> day of SEPTEMBER, 1999.

*Alessandro Forin*

**Alessandro FORIN, ASSIGNOR**

State of WA :  
County of Benz : SS

On this 8<sup>th</sup> day of September, 1999, before me, a Notary Public in and for the State and County aforesaid, personally appeared Alessandro FORIN, known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.



*Christy M. Pipal*  
Notary Public

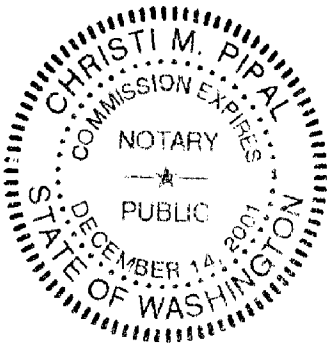
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this  
8th day of September, 1999.

*Andrew Raffman*  
**Andrew RAFFMAN, ASSIGNOR**

State of WA :  
County of King : SS

On this 8th day of September,  
1999, before me, a Notary Public in and for the State and County  
aforesaid, personally appeared Andrew RAFFMAN, known to me to be  
the person of that name, who signed and sealed the foregoing  
instrument, and acknowledged the same to be his/her free act and  
deed.

*Christi M. Piral*  
Notary Public



(MS77-4ASN/122:ca)