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1. Name of conveying party(ies):

Arthur Zwiegincew
James E. Walsh

A. Z. Walsh

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

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052

JCS72 U.S. PTO
09/794851
02/27/01

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

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

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Execution Date: 2-19-01 and 2-21-01

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: 2-19-01 and 2-21-01

A. Patent Application No.(s)

B. Patent No.(s)

09/794851

Additional numbers attached? Yes No

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

Name: M. Todd Mitchem
Address: Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903



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

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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.

M. Todd Mitchem

Name of Person Signing

Signature

February 27, 2001

Date

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03/15/2001 GTOM11

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PATENT
REEL: 011582 FRAME: 0086

ASSIGNMENT

WHEREAS, we, Arthur Zwiegincew, residing at 11911 NE 163rd Pl. Bothell, WA 98011,, and James E. Walsh, residing at 5611 125th Lane, NE, Kirkland, WA 98033, (hereinafter referred to as ASSIGNORS), respectively, are the joint inventors of an invention entitled "Pre-Fetching of Pages Prior to a Hard Page Fault Sequence", 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 any letters patent that may be granted therefor in the United States and in any and all foreign countries;

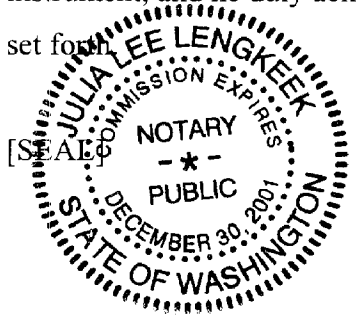
NOW THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted 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 division, 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 have hereunto set my hand this 19th day of February, 2001.

Arthur Zwiegincew
Arthur Zwiegincew

STATE OF Washington)
COUNTY OF King) ss.

On this 19th day of February, 2001, before me personally appeared Arthur Zwiegincew to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



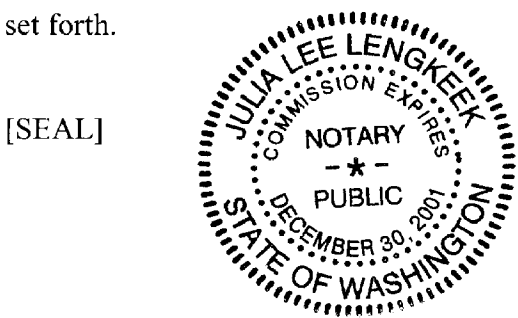
Julia Lee Lengkeek
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21 day of February, 2001.

James E. Walsh
James E. Walsh

STATE OF Washington)
COUNTY OF King) ss.

On this 21 day of February, 2001, before me personally appeared James E. Walsh to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



Julia Lee Lengkeek
Notary Public