

6-30-99

07-12-1999



Atty Ref/Docket No.: 777.256US1

101087477

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

1. Name of conveying party(ies):

Douglas S. Boa, Simon M. Meacham and Barry M. Nolte

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

Name: Microsoft Corporation

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

Street Address: One Microsoft Way

3. Nature of conveyance:

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

City: Redmond State: WA ZIP: 98052-6399

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

Execution Date: June 30, 1999

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: June 30, 1999

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? []Yes [X]No

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

Name: Bradley A. Forrest

Address: Schwegman, Lundberg, Woessner & Kluth, P.A.
P.O. Box 2938
Minneapolis, MN 55402

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. Please charge any additional fees or credit any overpayments to our Deposit account number: 19-0743

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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.

Bradley A. Forrest/Reg. No. 30,837
Name of Person Signing

Bradley A. Forrest
Signature

6/30/99
Date

Total number of pages including cover sheet: 4

OMB No. 0651-0011 (exp. 4/94)

07/12/1999 MTHAI1 00000043 09345176

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01 FC:581 Main documents to be recorded with required cover sheet information to:

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15490 U.S. PTO
09/345176
06/30/99

ASSIGNMENT

WHEREAS, we, Douglas S. Boa, Simon M. Meacham and Barry M. Nolle (hereinafter referred to as ASSIGNORS), having post office addresses of 11445 176th Place NE, Redmond, WA 98052, 4609 168th Court NE, Redmond, WA 98052 and 13123 NE 111th Place, Kirkland, WA 98033 respectively, are the joint inventors of an invention entitled "METHOD AND APPARATUS FOR FINDING NEAREST LOGICAL RECORD IN A HASH TABLE", 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 98052-6399, 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, 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.

ASSIGNMENT
Applicant:
Invention:

Douglas S. Boa et al.
METHOD AND APPARATUS FOR FINDING NEAREST LOGICAL RECORD IN A HASH TABLE

Docket No.: 777.256US1
Page 2 of 3

IN TESTIMONY WHEREOF, I have hereunto set my hand this 30th day of JUNE, 1999.

Douglas S. Boa
Douglas S. Boa

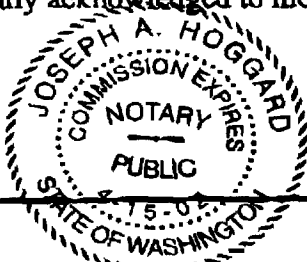
STATE OF WASHINGTON

)ss.

COUNTY OF KING

On this 30th day of JUNE, 1999 before me personally appeared Douglas S. Boa to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Joseph A. Hoggard
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 30th day of JUNE, 1999.

Simon M. Meacham
Simon M. Meacham

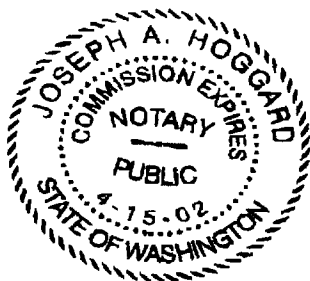
STATE OF WASHINGTON

)ss.

COUNTY OF KING

On this 30th day of JUNE, 1999 before me personally appeared Simon M. Meacham to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Joseph A. Hoggard
Notary Public

ASSIGNMENT

Applicant:
Invention:

Douglas S. Boe et al.
METHOD AND APPARATUS FOR FINDING NEAREST LOGICAL RECORD IN A HASH TABLE

Docket No.: 777.256LS1
Page 3 of 3

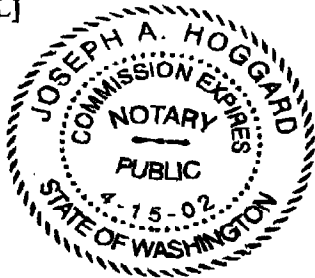
IN TESTIMONY WHEREOF, I have hereunto set my hand this 30th day of JUNE, 1999.

Barry M. Nolte
Barry M. Nolte

STATE OF WASHINGTON
COUNTY OF KING)ss.
)

On this 30th day of JUNE, 1999 before me personally appeared Barry M. Nolte to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Joseph A. Hoggard
Notary Public