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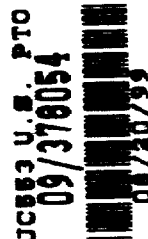
To the Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Luis Felipe Cabrera
ATM Shafiqul Khalid
Stefan Robert Steiner

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

Microsoft Corporation
One Microsoft Way
Redmond, Washington 98052



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: July 22, 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: July 22, 1999

A. Patent Application No.(s)

B. Patent No.(s)

09/378054

Additional numbers attached? Yes No

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

Name: Homer L. Knearl
Address: Merchant & Gould P.C.
3100 Norwest Center
90 South Seventh Street
Minneapolis, MN 55402-4131
303.357.1633

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: 13-2725

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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.

Homer L. Knearl

August 20, 1999

Name of Person Signing

Signature

Date

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08/27/1999 MTHAI1 00000284 09378054

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(40.00 OP)

ASSIGNMENT

WHEREAS, we, Luis Felipe Cabrera, ATM Shafiqul Khalid, and Stefan Robert Steiner (hereinafter referred to as ASSIGNORS), having post office addresses of 2009 Killarney Way S.E., Bellevue, Washington 98004; 15524 NE 17th Street, Apt. No. O-418, Bellevue, Washington 98007; and 4220 249th Court SE, Issaquah, Washington 98029, respectively, are the joint inventors of an invention entitled "EFFICIENT ACCESS TO VARIABLE-LENGTH DATA ON A SEQUENTIAL ACCESS STORAGE MEDIUM," 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;

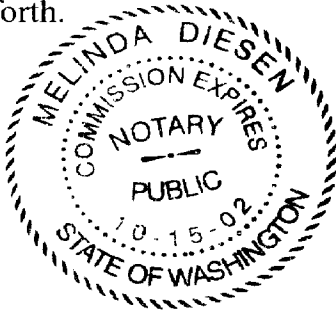
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted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

Luis Felipe Cabrera
Luis Felipe Cabrera

STATE OF WASHINGTON)
) ss.
COUNTY OF King)

On this 22nd day of July, 1999, before me personally appeared Luis Felipe Cabrera 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.

[SEAL]



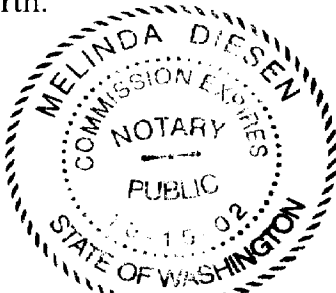
Melinda Diesen
Notary Public

[Signature]
ATM Shafiqul Khalid

STATE OF WASHINGTON)
) ss.
COUNTY OF King)

On this 22nd day of July, 1999, before me personally appeared ATM Shafiqul Khalid 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.

[SEAL]



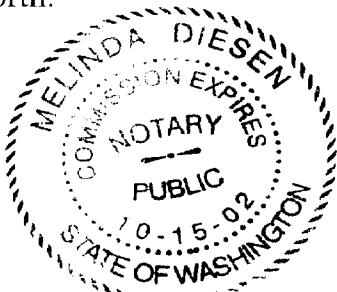
Melinda Diesen
Notary Public

[Signature]
Stefan Robert Steiner

STATE OF WASHINGTON)
) ss.
COUNTY OF King)

On this 22nd day of July, 1999, before me personally appeared Stefan Robert Steiner 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.

[SEAL]



Melinda Diesen
Notary Public