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U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):
Alexandre V. Grigorovitch
Yejin Choi
Thales Paulo de Carvalho
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: 98052-6395
Additional name(s) & address(es) attached? Yes No

16235 U.S. PTO
10/632767



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

Execution Date: 7/31/2003

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: 8/1/2003
A. Patent Application No.(s) 18/632767
B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Steven J. Spellman; 45,124
Internal Address: Lee & Hayes, PLLC
Street Address: 421 West Riverside Avenue
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: 12-0769
(Attach duplicate copy of this page if paying by 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.
Steven J. Spellman; 45,124
Name of Person Signing
Signature
Date 8/1/03

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:
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Alexandria, VA 22313-1450

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....
Filing Date..... Executed Concurrently Herewith
Inventorship..... Grigorovitch et al.
Applicant..... Microsoft Corporation
Attorney's Docket No. MS1-1541US
MSDocket No.....302026.1
Title: Sparse Caching for Streaming Media

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Alexandre V. Grigorovitch
7250 Old Redmond Rd #149
Redmond, WA 98052

Yejin Choi
817 144th Avenue N.E., Apt. B-2
Bellevue, WA 98007

Thales Paulo de Carvalho
14530 NE 35th St; E-304
Bellevue, WA 98007

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 "Sparse Caching for Streaming Media," 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.

07/31/03
Date



Alexandre V. Enigorovitch

Date

Yejin Choi

07/31/2003
Date



Thales Paulo de Carvalho


Attorney Docket No. MS1-1541US
MS Docket No. 302026.1
Serial No. (if known) _____

Date

07/31/2003

Date

Alexandre V. Grigorovitch


Yejin Choi

Date

Thales Paulo de Carvalho