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To The Honorable Commissioner of Patents and Trademark

1. Name of conveying party(ies):

Gregory D. Swedberg January 10, 2003
First Assignor Date of Execution

Second Assignor Date of Execution

Third Assignor Date of Execution

Fourth Assignor Date of Execution

Fifth Assignor Date of Execution

Sixth Assignor Date of Execution

Additional name(s) of conveying party(ies) attached? ☐ YES ☒ NO

4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos.:

Patent Nos.:

Date application was signed by the first
named executing inventor

December 16, 2002

(Fill-in this date only if assignment is filed
together with a new application)5. Name and address of party to whom correspondence
concerning documents should be mailed:Name: Sharon Fenick
WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, Pennsylvania 19103-7301
215-568-3100

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 Number
23-30508. Please charge any deficiency or credit any overpayment to
Deposit Account Number 23-3050

DO NOT USE THIS SPACE

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.*Sharon Fenick 45,269
Name of Person Signing/Reg. No.

Signature

Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 4

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

01/21/2003 LMUELLER 00000143 10341168

01 7C-0021

40.00 UP



102343358

Name: Microsoft Corporation

Street Address: One Microsoft Way

City: Redmond

State Washington ZIP 98052

Additional name(s) & address attached? ☐ YES ☒ NO

3. Nature of Conveyance (check only one):

☒ New Assignment ☐ Merger
☐ License Agreement ☐ Security Agreement
☐ Change of Name ☐ Other:☐ Cross-reference of Assignment filed in United StatesApplication No. / , recorded on at Reel
No. and Frame No.

J1046 U.S. PTO

10/341168

01/13/03

PATENT

REEL: 013665 FRAME: 0306

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventorship.....Christopher Raubacher, et al.
Applicant.....Microsoft Corporation
Attorney's Docket No.MSFT-1439
Title: Hardware Accelerated Anti-Aliased Primitives Using Alpha Gradients

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Christopher Raubacher

1127 17th Avenue, Apartment 302

Seattle, Washington 98122

Gregory D. Swedberg

4952 160th Court SE

Bellevue, Washington 98006

Ashraf A. Michail

15606 N.E. 40th Street, Q-363

Redmond, Washington 98052

Michael Kallay

Address

City, etc.

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 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;

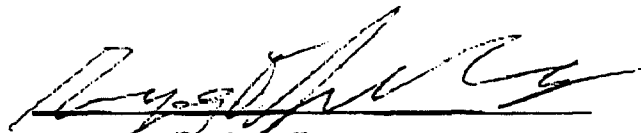
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted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

Date

Christopher Raubacher

1/10/2003

Date


Gregory D. Swedberg

Date

Ashraf A. Michail

Date

Michael Kallay