

PATEN

10-23-2003



Attorney Docket No.  
M61.12-0547

To the Honorable  
attached original document 102581614

Patent and Trademark Office: Please record the

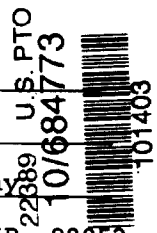
1. Name of conveying party(ies):  
 (1) Zicheng Liu  
 (2) Baining Guo  
 (3) Heung-Yeung Shum  
 (4) Qingshan Zhang

10-14-03

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] 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

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



3. Nature of Conveyance:  
 Assignment [ ] Merger  
 Security Agreement  
 Change of Name [ ] Other \_\_\_\_\_

Execution Date: 1) Oct. 9, 2003; 2) Oct. 13, 2003; 3) Oct. 13, 2003; 4) Oct. 12, 2003

4A. Application No. (s)  
20684773

If this document is being filed together with a new application, the execution date(s) of the application is: 1) Oct. 9, 2003; 2) Oct. 13, 2003; 3) Oct. 13, 2003; 4) Oct. 12, 2003

Additional numbers attached? [ ] Yes [X] No

4B. Patent No. (s)

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Steven M. Koehler  
 Street Address: Westman, Champlin & Kelly, P.A  
Suite 1600  
International Centre  
900 Second Avenue South  
 City: Minneapolis State: MN ZIP 55402

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41):.....\$ 40.00

8. Method of Payment  
 Enclosed  
 The Director is authorized to charge payment of any additional recording fees or credit any overpayment to deposit account No. 23-1123.

10/20/2003 YPOLITE1 00000076 10684773  
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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.

Steven M. Koehler  
 Name of Person Signing

[Signature]  
 Signature

10/14/03  
 Date

Total number of pages submitted: [7]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....  
Filing Date..... HEREWITH  
Inventorship..... Zicheng Liu et al.  
Applicant..... Microsoft Corporation  
Attorney's Docket No. .... M61.12-0547  
MS Docket No. .... 303775.01  
Title: GEOMETRY-DRIVEN IMAGE SYNTHESIS RENDERING

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Zicheng Liu  
14743 SE 63rd Street  
Bellevue, Washington 98006

Baining Guo  
Apt 202, Bldg. #8, Tai Yue Yuan  
Haidian District  
Beijing, China 100086

Heung-Yeung Shum  
Villa 43B, Beijing Reveria  
Chaoyang District  
Beijing, China 100103

Qingshan Zhang  
R&D Center, Huawei Base  
Bantian Industry Zone  
Longgang, Shenzhen  
China 518129

Assignee:

Microsoft Corporation  
Corporation in the State of Washington  
One Microsoft Way  
Redmond, WA 98052

AGREEMENT

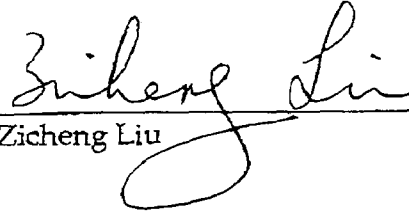
WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "GEOMETRY-DRIVEN IMAGE SYNTHESIS RENDERING", as described and claimed in the specification forming part of an application for United States letters patent referenced above;

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 ~~therefore~~ 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 therefore.

10/9/2003

Date

  
Zicheng Liu

Date

Baining Guo

Date

Heung-Yeung Shum

Date

Qingshan Zhang

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number .....  
Filing Date ..... HEREWITH  
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Haidian District  
Beijing, China 100086

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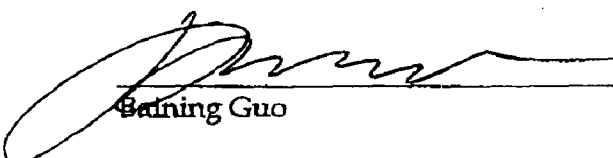
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NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application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

\_\_\_\_\_  
Date

\_\_\_\_\_  
Zicheng Liu

10/13/2003  
Date

  
\_\_\_\_\_  
Baoning Guo

Oct. 13, 2003  
Date

  
\_\_\_\_\_  
Heung-Yeung Shum

\_\_\_\_\_  
Date

\_\_\_\_\_  
Qingshan Zhang

\_\_\_\_\_  
Date

\_\_\_\_\_  
Zicheng Liu

\_\_\_\_\_  
Date

\_\_\_\_\_  
Baining Guo

\_\_\_\_\_  
Date

\_\_\_\_\_  
Heung-Yeung Shum

Oct. 12, 2003

Date

Qingshan Zhang (张青山)  
Qingshan Zhang