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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):

Zhengyou Zhang, Padmananbhan Anandan and
Heung-Yeung Shum

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

Name: Microsoft Corporation

Address: One Microsoft Way

Additional names(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

City: Redmond

State/Prov.: WA

Country: USA

ZIP: 98052

Execution Date: 9/14/99 and 11/1/99

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.

Filing date

B. Patent No.(s)

09/336,218

6/19/99

Additional numbers attached? ☐ Yes ☒ No

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

Name: Edmond A. DeFrank

Registration No. 37,814

Address: LYON HARR & DEFRANK

300 East Esplanade Drive

Suite 800

City: Oxnard

State/Prov.: CA

Country: USA

ZIP: 93030

6. Total number of applications and patents involved: 1

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

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☒ Authorized to be charged to deposit account

8. Deposit account number:

50-0463

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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

Edmond A. DeFrank

Name of Person Signing

Signature

11/10/99

Date

Total number of pages including cover sheet, attachments, and document: 4

PATENT

REEL: 010407 FRAME: 0299

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ASSIGNMENT

WHEREAS, we, Zhengyou Zhang, Padmananbhan Anandan and Heung-Yeung Shum (hereinafter referred to as ASSIGNORS), having post office addresses 10090 177th Ave NE, Redmond, WA 98052; 1104 E Lake Sammamish Pkwy SE, Issaquah, WA 98029 and 3515 167th Place NE, Bellevue, WA 98008, respectively, are the inventors of an invention entitled "A SYSTEM AND METHOD FOR DETERMINING STRUCTURE AND MOTION USING MULTIPLE SETS OF IMAGES FROM DIFFERENT PROJECTION MODELS FOR OBJECT MODELING," as described and claimed in the specification forming part of an application for United States letters patent filed June 19, 1999 and assigned Serial No. 09/336,218;

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.

IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.

1) ASSIGNOR

[Signature]

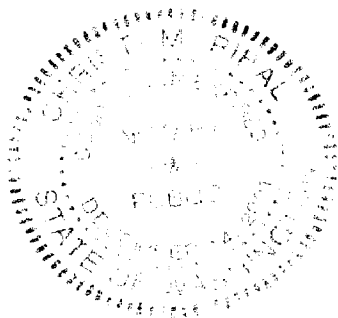
Dated: 9/14/99

Zhengyou Zhang

State of WA

County of King

On this 14th day of September, 1999, before me, a Notary Public in and for the State and County aforesaid, personally appeared Zhengyou Zhang, known to me to be the person of that name, who signed the foregoing instrument, and who acknowledged that he signed it as a free act on his behalf, on the day and year aforesaid.



[Signature]

Notary Public

2) ASSIGNOR

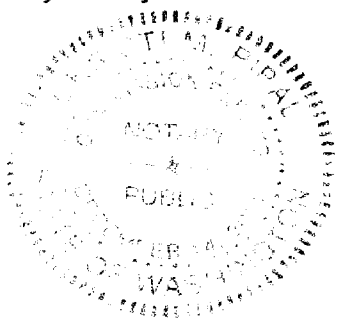
Padmananbhan Anandan
Padmananbhan Anandan

Dated: 9/14/99

State of Ill

County of Rock

On this 14th day of September, 1999, before me, a Notary Public in and for the State and County aforesaid, personally appeared Padmananbhan Anandan, known to me to be the person of that name, who signed the foregoing instrument, and who acknowledged that he signed it as a free act on his behalf, on the day and year aforesaid.



Christine M. Ripal
Notary Public

3) ASSIGNOR

Heung-Yeung Shum
Heung-Yeung Shum

Dated: 11/1/99

State of Ill

County of Rock

On this 1st day of November, 1999, before me, a Notary Public in and for the State and County aforesaid, personally appeared Heung-Yeung Shum, known to me to be the person of that name, who signed the foregoing instrument, and who acknowledged that he signed it as a free act on his behalf, on the day and year aforesaid.

Christine M. Ripal
Notary Public witness