

PATENT ASSIGNMENT

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT OF ASSIGNOR'S INTEREST

CONVEYING PARTY DATA

Conveying Party Name: Zhengyou Zhang

Execution Date: 05/22/2001

Conveying Party Name: Ko Nishino

Execution Date: 05/28/2001

Conveying Party Name: Katsushi Ikeuchi

Execution Date: 05/28/2001

RECEIVING PARTY DATA

Receiving Party Name: Microsoft Corporation

Street Address: One Microsoft Way

Internal Address:

City: Redmond

State: WASHINGTON

Country:

Postal Code: 98052

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CUSTOMER NUMBER: 027662

***To the best of my knowledge, the foregoing information is true and correct and any
attached copy is a true copy of the original document.***

NAME OF PERSON SIGNING: Richard T. Lyon

DATE SIGNED: 06/03/2001

Total Attachments: 6

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**PATENT
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ASSIGNMENT

WHEREAS, we,

Zhengyou Zhang
10090 177th Ave. NE
Redmond, Washington 98052

Ko Nishino
2-3-5-b Motoizumi, Komae-shi
Tokyo, Japan 201-0013

Katsushi Ikeuchi
2-12 Umegaoka, Aoba-ku Yokohama-shi
Kanagawa, Japan 227-0052

(hereinafter referred to as ASSIGNORS) are the joint inventors of an invention entitled "VIEW-DEPENDENT IMAGE SYNTHESIS," 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.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

1) FIRST ASSIGNOR

[Signature]
Assignor's Signature

Dated: 5/22/2001

Zhengyou Zhang
Assignor's Printed Name

On this 22 day of May, 2001, before me personally came the above named Zhengyou Zhang who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged that he/she executed the same of his/her own free will on the day and year aforesaid for the purposes set forth therein.

Craig Morrison
Witness Name

[Signature]
Witness Signature

2) SECOND ASSIGNOR

Assignor's Signature

Dated: _____

Ko Nishino
Assignor's Printed Name

On this _____ day of _____, 20____, before me personally came the above named Ko Nishino who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged that he/she executed the same of his/her own free will on the day and year aforesaid for the purposes set forth therein.

Witness Name

Witness Signature

3) THIRD ASSIGNOR

_____ Dated: _____
Assignor's Signature

Katsushi Ikeuchi
Assignor's Printed Name

On this _____ day of _____, 20____, before me personally came the above named Katsushi Ikeuchi who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged that he/she executed the same of his/her own free will on the day and year aforesaid for the purposes set forth therein.

Witness Name

Witness Signature

ASSIGNMENT

WHEREAS, we,

Zhengyou Zhang
10090 177th Ave. NE
Redmond, Washington 98052

Ko Nishino
2-3-5-b Motoizumi, Komae-shi
Tokyo, Japan 201-0013

Katsushi Ikeuchi
2-12 Umegaoka, Aoba-ku Yokohama-shi
Kanagawa, Japan 227-0052

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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, we have hereunto signed our names on the day and year set forth below.

1) FIRST ASSIGNOR

_____ Dated: _____
Assignor's Signature

Zhengyou Zhang
Assignor's Printed Name

On this _____ day of _____, 20____, before me personally came the above named Zhengyou Zhang who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged that he/she executed the same of his/her own free will on the day and year aforesaid for the purposes set forth therein.

_____ Witness Name _____ Witness Signature

2) SECOND ASSIGNOR

Ko Nishino Dated: May 28 '01
Assignor's Signature

Ko Nishino
Assignor's Printed Name

On this 28th day of May, 2001, before me personally came the above named Ko Nishino who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged that he/she executed the same of his/her own free will on the day and year aforesaid for the purposes set forth therein.

Keiko Motoki _____
Witness Name _____ Witness Signature

3) THIRD ASSIGNOR



Assignor's Signature

Dated: May 28 01

Katsushi Ikeuchi
Assignor's Printed Name

On this 28th day of May, 2001, before me personally came the above named Katsushi Ikeuchi who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged that he/she executed the same of his/her own free will on the day and year aforesaid for the purposes set forth therein.

Keiko Motoki
Witness Name


Witness Signature