Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| Kun Zhou | 09/27/2008 |
| Minmin Gong | 09/02/2008 |
| Baining Guo | 09/27/2008 |

RECEIVING PARTY DATA

| Name: | Microsoft Corporation |
|-----------------|-----------------------|
| Street Address: | One Microsoft Way |
| City: | Redmond |
| State/Country: | WASHINGTON |
| Postal Code: | 98052 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12240973 |

CORRESPONDENCE DATA

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Address Line 2: Patent Group Docketing Dept Redmond, WASHINGTON 98052 Address Line 4:

| ATTORNEY DOCKET NUMBER: | 323439.01 |
|-------------------------|---------------|
| NAME OF SUBMITTER: | Papiya Chanda |

Total Attachments: 4

500757657

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PATENT **REEL: 022125 FRAME: 0981**

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PATENT REEL: 022125 FRAME: 0982

PATENT ASSIGNMENT

MS Docket No.: 323439.01

I/WE, Kun Zhou, Minmin Gong, and Baining Guo ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "OCTREE CONSTRUCTION ON GRAPHICS PROCESSING UNITS" ("APPLICATION"), which:

| X | will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR |
|---|---|
| | hereby authorizes, and requests, ASSIGNEE'S legal representatives, of |
| | the Law and Corporate Affairs Department, Microsoft Corporation, One |
| | Microsoft Way, Redmond, Washington 98052, who are associated with |
| | customer number 69316, to insert here in parenthesis (Application No $\frac{12/240,973}{}$, filed $\frac{09/29/2008}{}$) this APPLICATION's Application No. and |
| | filing date, when known; |
| | was filed on and was given Application No; |
| | is filed concurrently herewith; |
| | |

Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

| kun Zhou | Sep 27, 2008 |
|-------------------------|---|
| Inventor's Signature | Date |
| Kun Zhou | 周昆 |
| Printed Name in English | Printed Name in Native Language (if other than English) |

Page 1 of 2

PATENT ASSIGNMENT MS Docket No.: 323439.01

| Inventor's Signature | Date |
|--|---|
| Printed Name in English Minmin Gong | Printed Name in Native Language (if other than English) |
| Inventor's Signature | Date |
| Printed Name in English | Printed Name in Native Language (if |

Baining Guo other than English)

| PAT | ENT ASSIGNMENT MS Docket No.: 323439.01 |
|---|---|
| subject matter ("INVENTION") discloses "OCTREE CONSTRUCTION ON GRAPHIC will be filed without thereby authorizes, and the Law and Corporate Microsoft Way, Redmodustomer number 693 12/240,973, filed 09/2 filing date, when known | and was given Application No; |
| | |
| successors and assigns ("ASSIGNEE"), entire and exclusive rights, title and it (and all other applications and parapplications, in and for the United State ("APPLICATION DERIVATIVES")); For good and valuable contacknowledged by the ASSIGNOR, the atthe ASSIGNEE, the entire and exclusive the APPLICATION (and APPLICATION DIASSIGNOR agrees to execute a making and prosecution of the APPLICATION of the APPLICATION and prosecution of the APPLICATION (and APPLICATION DIASSIGNOR agrees to execute a making and prosecution of the APPLICATION (and APPLICATION DIASSIGNOR agrees to execute a making and prosecution of the APPLICATION (and APPLICATION DIASSIGNOR agrees to execute a making and prosecution of the APPLICATION (and APPLICATION DIASSIGNOR agrees to execute a making and prosecution of the APPLICATION (and APPLICATION DIASSIGNOR agrees to execute a making and prosecution of the APPLICATION (and APPLICATION DIASSIGNOR agrees to execute a making and prosecution of the APPLICATION (and APPLICATION DIASSIGNOR agrees) | I instruments and documents required for the ICATION (and APPLICATION DERIVATIVES), for ed therefrom, and for the purpose of protecting |
| | |
| Inventor's Signature | Date |
| Printed Name in English | Printed Name in Native Language (if |

Page 1 of 2

Kun Zhou

other than English)

RECORDED: 01/20/2009

PATENT ASSIGNMENT

MS Docket No.: 323439.01

Min min Gong 2008. 9. 27
Inventor's Signature Date

Minmin Gong 養緻敏

Printed Name in English Printed Name in Native Language (if Minmin Gong other than English)

Dr 09/27/2008

Inventor's Signature Date

Baining Guo 郭百宁

Printed Name in English Printed Name in Native Language (if

Baining Guo other than English)