PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------|----------------|
| Cheng Huang | 12/19/2007 |
| Jin Li | 12/19/2007 |
| Minghua Chen | 12/20/2007 |

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: | 11961866 |

CORRESPONDENCE DATA

Fax Number: (805)278-8064 Phone: (805) 278-8855

Email: ashley@cuttingedgepatents.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Correspondent Name: Lyon & Harr, LLP

Address Line 1: 300 Esplanade Dr., Suite 800
Address Line 4: Oxnard, CALIFORNIA 93036

| ATTORNEY DOCKET NUMBER: | MCS-041-07 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | Mark A. Watson |

Total Attachments: 2

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OF \$40.00 119618

PATENT REEL: 026893 FRAME: 0559

PATENT ASSIGNMENT

| I/WE, Cheng Huang, Jin Li, Minghua Chen ("ASSIGNOR"), have invented su | bject |
|---|-------|
| matter ("INVENTION") disclosed and/or claimed in a patent application entitled "OPTIM | ZINC |
| XOR-BASED CODES" ("APPLICATION"), which: | |

| Man a man man free man free stranger | |
|--|------------------------|
| 🗵 will be filed without this executed PATENT ASSIGNMENT. | ASSIGNOR hereby |
| authorizes, and requests, ASSIGNEE'S legal representativ | es, of Lyon & Harr, |
| LLP, 300 Esplanade drive, Suite 800, Oxnard, CA 93041, | who are associated |
| with customer number 27662, to insert here in parenthe | esis (Application No. |
| 11/961,866, filed12/20/2007) this APPLICATIO | ON'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 beha | If of itself and its |
| successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of ac | quiring, the entire |
| and exclusive rights, title and interest in the INVENTION and the APPLICA | ATION (and all other |
| applications and patents derived therefrom, such as continuing applicati | ions, in and for the |
| United States, its territories, and all foreign countries ("APPLICATION DE | RIVATIVES")); |
| For good and valuable consideration, the receipt of which i | s hereby |
| acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and | d transfers to the |
| ASSIGNEE, the entire and exclusive rights, title and interest in the INVEN | TION and the |
| APPLICATION (and APPLICATION DERIVATIVES); | |
| ASSIGNOR agrees to execute all instruments and document | ts required for the |
| making and prosecution of the APPLICATION (and APPLICATION DERIVATION) | ΓΙVES), for litigation |
| regarding letters patent derived therefrom, and for the purpose of prote | cting and perfecting |
| title to the APPLICATION (and APPLICATION DERIVATIVES). | |
| | 1 |
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| Dec. 17, 200 7 | |
| Date Cheng Huarig | |
| | |
| Dec. 19, 2007 | |
| | |
| Date Jin Li | |
| | |
| | |

PATENT REEL: 026893 FRAME: 0560

Minghua Chen

Date

| 1 / | <u>PATENT ASSIGNMENT</u> WE, Cheng Huang, Jin Li, Minghua Chen ("ASSIGNOR"), have invented subject |
|-------------------|--|
| | TION") disclosed and/or claimed in a patent application entitled "OPTIMIZING |
| | DES" ("APPLICATION"), which: |
| www | will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby |
| Aircial Paris | authorizes, and requests, ASSIGNEE'S legal representatives, of Lyon & Harr, |
| | LLP, 300 Esplanade drive, Suite 800, Oxnard, CA 93041, who are associated |
| | with customer number 27662, to insert here in parenthesis (Application No. |
| | $\frac{11/961,866}{}$, filed $\frac{12/20/2007}{}$) this APPLICATION's Application No. |
| | and filing date, when known; |
| | was filed on and was given Application No; |
| | is filed concurrently herewith; |
| M | icrosoft Corporation, a Washington Corporation, on behalf of itself and its |
| | assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire |
| and exclusive r | ights, title and interest in the INVENTION and the APPLICATION (and all other |
| applications an | d patents derived therefrom, such as continuing applications, in and for the |
| United States, i | ts territories, and all foreign countries ("APPLICATION DERIVATIVES")); |
| Fo | or 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 (a | and APPLICATION DERIVATIVES); |
| A: | SSIGNOR agrees to execute all instruments and documents required for the |
| making and pro | osecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation |
| regarding letter | rs patent derived therefrom, and for the purpose of protecting and perfecting |
| title to the APPI | LICATION (and APPLICATION DERIVATIVES). |
| | |
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| | |
| Date | Cheng Huang |
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| | |
| Date | Jin Li |
| | |

Page 1 of 1 **PATENT** REEL: 026893 FRAME: 0561

Date

RECORDED: 09/13/2011

Minghua Chen