## Electronic Version v1.1 Stylesheet Version v1.1

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

## **CONVEYING PARTY DATA**

| Name                     | Execution Date |
|--------------------------|----------------|
| Jianfeng Gao             | 02/03/2009     |
| Yi Su                    | 02/18/2009     |
| Qiang Wu                 | 02/03/2009     |
| Chris J.C. Burges        | 02/03/2009     |
| Krysta Svore             | 02/03/2009     |
| Elbio Renato Torres Abib | 02/11/2009     |

### **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: | 12337623 |

## **CORRESPONDENCE DATA**

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

ATTORNEY DOCKET NUMBER: 325285.01

**PATENT** 

**REEL: 022472 FRAME: 0046** 

| NAME OF SUBMITTER:                      | Ajay Kumar Sarkar |
|---|-------------------|
| Total Attachments: 9                    |                   |
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| source=325285.01 Executed Assignment#pa | age9.tif          |

PATENT REEL: 022472 FRAME: 0047 I/WE, Jianfeng Gao, Yi Su, Qiang Wu, Chris J.C. Burges, Krysta Svore and Elbio Renato Torres Abib ("ASSICNOR") have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "BOOSTING ALGORITHM FOR RANKING MODEL ADAPTATION" ("APPLICATION"), which:

[] will be filed without this executed PATENT ASSICNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of

was filed on <u>December 17, 2008</u> and was given Application No. 12/337,623:

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).

| Tanja ja                | 2/3/2409                            |
|-------------------------|-------------------------------------|
| Inventor's Signature    | Date 22-2. 4                        |
| Jianfeng Gao            |                                     |
| Printed Name in English | Printed Name in Native Language (if |
|                         | other than English)                 |

Page | of 3

MS Docket No.: 325285.01

PATENT ASSIGNMENT

| nventor's Signature     | Date  |
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| ʻi Su                   |   |
| Printed Name in English | Printed Name in Native Language (if other than English) |
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| nventor's Signature     | Date  |
| Qiang Wu                |   |
| rinted Name in English  | Printed Name in Native Language (if other than English) |
|                         |   |

Page 2 of 3

Chris J.C. Burges

Printed Name in English

PATENT REEL: 022472 FRAME: 0049

Printed Name in Native Language (if

other than English)

MS Docket No.: <u>325285.01</u>

| nventor's Signature     | Date  |
|-------------------------|---|
| Crysta Svore            |   |
| Printed Name in English | Printed Name in Native Language (if other than English) |
|                         |   |
|                         |   |
|                         | 2/11/09   |
| nventor's Signature     | Date  |
| Hojo Renato Torres Abib | ELBIO RENATO TORRES AB                                  |
| Printed Name in English | Printed Name in Native Language (if                     |

other than English)

| Renato Torres Abib ("ASSIGNOR") have in and/or claimed in a patent application of MODEL ADAPTATION" ("APPLICATION"), will be filed without this hereby authorizes, and the Law and Corporate A Microsoft Way, Redmond customer number 69316, filed, filed, was filed on December 1  | s executed PATENT ASSIGNMENT. ASSIGNOR requests, ASSIGNEE'S legal representatives, of Affairs Department, Microsoft Corporation, One d, Washington 98052, who are associated with 6, to insert here in parenthesis (Application No) this APPLICATION's Application No. and   |
|---|--|
| 12/337,623;   | ~··  |
| successors and assigns ("ASSIGNEE"), is entire and exclusive rights, title and into (and all other applications and pate applications, in and for the United State ("APPLICATION DERIVATIVES")),  For good and valuable considuations acknowledged by the ASSIGNOR, the ASSIGNOE, the entire and exclusive rathe APPLICATION (and APPLICATION DER ASSIGNOR agrees to execute all making and prosecution of the APPLICATION and APPLICATION can be applicated as a succession of the APPLICATION can be applicated as a succession of the APPLICATION can be applicated as a succession and prosecution of the APPLICATION can be applicated as a succession and prosecution of the APPLICATION can be applicated as a succession and prosecution of the APPLICATION can be applicated as a succession and pate and pate applications. | gton Corporation, on behalf of itself and its entitled to, and is desirous of acquiring, the terest in the INVENTION and the APPLICATION and the APPLICATION at derived therefrom, such as continuing ates, its territories, and all foreign countries deration, the receipt of which is hereby SIGNOR hereby sells, assigns and transfers to rights, title and interest in the INVENTION and IVATIVES); instruments and documents required for the CATION (and APPLICATION DERIVATIVES), for detherefrom, and for the purpose of protecting |
| Inventor's Signature  | Date   |
| Jianfeng Gao  |  |
| Printed Name in English   | Printed Name in Native Language (if other than English)  |

Page 1 of 3

| Inventor's Signature    | Date                                |
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| Yi Su                   |                                     |
| Printed Name in English | Printed Name in Native Language (if |
|                         | other than English)                 |

| Et !                    | 02/03/2009  |
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| Inventor's Signature    | Date  |
| Qiang Wu                | 关线  |
| Printed Name in English | Printed Name in Native Language (if other than English) |

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| Inventor's Signature    | Date  |
| Chris J.C. Burges       |   |
| Printed Name in English | Printed Name in Native Language (if other than English) |

| Inventor's Signature  Krysta Svore |   |
|------------------------------------|---|
| Printed Name in English            | Printed Name in Native Language (if other than English) |
| Inventor's Signature               | Date  |
| Elbio Renato Torres Abib           |   |
| Printed Name in English            | Printed Name in Native Language (if other than English) |

| Renato Torres Abib ("ASSIGNOR") have invent and/or claimed in a patent application entitl MODEL ADAPTATION" ("APPLICATION"), which will be filed without this ex hereby authorizes, and required the Law and Corporate Affair Microsoft Way, Redmond, Was customer number 69316, to filing date, when known; was filed on December 17, 20 | ed "BOOSTING ALGORITHM FOR RANKING         |  |
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| 12/337,623;   |  |  |
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| •   | Corporation, on behalf of itself and its   |  |
| successors and assigns ("ASSIGNEE"), is enti-   |  |  |
| entire and exclusive rights, title and interes  |  |  |
| (and all other applications and patents   |  |  |
| applications, in and for the United States,   | its territories, and all foreign countries |  |
| ("APPLICATION DERIVATIVES"));   | the she waster of this to be the           |  |
|   | tion, the receipt of which is hereby       |  |
| acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to   |  |  |
| the ASSIGNEE, the entire and exclusive right  |  |  |
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| <del>-</del>  | ruments and documents required for the     |  |
| making and prosecution of the APPLICATI-<br>litigation regarding letters patent derived the   |  |  |
| and perfecting title to the APPLICATION (and  |  |  |
| and perfecting the to the ATLICATION (and   | AT LICATION DERIVATIVES).                  |  |
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| Inventor's Signature  | Date                                       |  |
|   |  |  |
| Jianfeng Gao  |  |  |
| Printed Name in English   | Printed Name in Native Language (if        |  |

Page 1 of 3

other than English)

| Mr Sn                   | 02/18/09<br>Date  |
|-------------------------|---|
| inventor's Signature    | Date  |
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| Yi Su                   |   |
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|                         | other than English)                                     |
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| Qiang Wu                |   |
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| Inventor's Signature    | Date  |
|                         |   |
| Chris J.C. Burges       |   |
| Printed Name in English | Printed Name in Native Language (if other than English) |

## PATENT ASSIGNMENT

Inventor's Signature Date

Krysta Svore
Printed Name in English Printed Name in Native Language (if other than English)

Inventor's Signature Date

Elbio Renato Torres Abib
Printed Name in English Printed Name in Native Language (if

other than English)

MS Docket No.: 325285.01