

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3043995

|   |  |
|---|--|
| <b>SUBMISSION TYPE:</b>   | CORRECTIVE ASSIGNMENT  |
| <b>NATURE OF CONVEYANCE:</b>  | Corrective Assignment to correct the INVENTOR PATRICE Y. SIMARD'S NAME WAS INCORRECTLY ENTERED AS PATRICE Y. SIMRAD. previously recorded on Reel 024248 Frame 0975. Assignor(s) hereby confirms the THE EXECUTED DOCUMENT LISTS INVENTORSHIP OF DENIS X. CHARLES, DAVID M. CHICKERING, PATRICE Y. SIMARD AND REID M. ANDERSEN. |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>  |
| DENIS X. CHARLES  | 03/22/2010   |
| DAVID M. CHICKERING   | 03/22/2010   |
| PATRICE Y. SIMARD   | 03/22/2010   |
| REID M. ANDERSEN  | 03/24/2010   |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | MICROSOFT CORPORATION  |
| <b>Street Address:</b>  | ONE MICROSOFT WAY  |
| <b>City:</b>  | REDMOND  |
| <b>State/Country:</b>   | WASHINGTON   |
| <b>Postal Code:</b>   | 98052  |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>  |
| Application Number:   | 12748014   |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (509)755-7252  |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |  |
| <b>Phone:</b>   | 5097557262   |
| <b>Email:</b>   | travis@wolfe-sbmc.com  |
| <b>Correspondent Name:</b>  | WOLFE-SBMC   |
| <b>Address Line 1:</b>  | 601 W. MAIN AVENUE   |
| <b>Address Line 2:</b>  | SUITE 1300   |
| <b>Address Line 4:</b>  | SPOKANE, WASHINGTON 99201  |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 329063.01  |
| <b>NAME OF SUBMITTER:</b>   | DANIEL T. MCGINNITY, REG# 55,444   |
| <b>SIGNATURE:</b>   | /Daniel T. McGinnity,#55444/   |
| <b>DATE SIGNED:</b>   | 09/30/2014   |

PATENT

**Total Attachments: 9**

source=32906301ExecutedAssignment#page1.tif

source=32906301ExecutedAssignment#page2.tif

source=32906301ExecutedAssignment#page3.tif

source=32906301ExecutedAssignment#page4.tif

source=32906301NoticeofRecordation#page1.tif

source=32906301NoticeofRecordation#page2.tif

source=32906301NoticeofRecordation#page3.tif

source=32906301NoticeofRecordation#page4.tif

source=32906301NoticeofRecordation#page5.tif

**PATENT ASSIGNMENT**

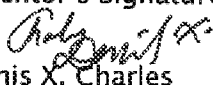
I/WE, Denis X. Charles, David M. Chickering, Patrice Y. Simard, Reid M. Andersen ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "GRAPH CLUSTERING" ("APPLICATION"), which:


- ☐ 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. \_\_\_\_\_, filed \_\_\_\_\_) this APPLICATION's Application No. and filing date, when known;
- ☒ was filed on 03/26/2010 and was given Application No. 12/748,014;
- ☐ is filed concurrently herewith;

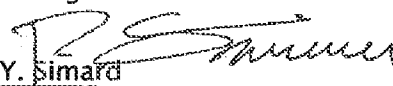
Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, 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).

|   |   |
|---|---|
| Inventor's Signature<br><br>Denis X. Charles | Date<br>MARCH 22, 2010                                  |
| Printed Name in English   | Printed Name in Native Language (if other than English) |

|   |  |
|---|--|
| Inventor's Signature<br> | Date<br>3/22/10  |
| David M. Chickering<br>Printed Name in English  | Printed Name in Native Language (if<br>other than English) |

|   |  |
|---|--|
| Inventor's Signature<br> | Date<br>3/22/2010  |
| Patrice Y. Simard<br>Printed Name in English  | Printed Name in Native Language (if<br>other than English) |

|   |  |
|---|--|
| Inventor's Signature                        | Date   |
| Reid M. Andersen<br>Printed Name in English | Printed Name in Native Language (if<br>other than English) |

PATENT ASSIGNMENT

I/WE, Denis X. Charles, David M. Chickering, Patrice Y. Simard, Reid M. Andersen ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "GRAPH CLUSTERING" ("APPLICATION"), which:

- ☐ 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. \_\_\_\_\_, filed \_\_\_\_\_) this APPLICATION's Application No. and filing date, when known;
- ☒ was filed on 03/26/2010 and was given Application No. 12/748,014;
- ☐ 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).

|                         |   |
|-------------------------|---|
| Inventor's Signature    | Date  |
| Denis X. Charles        |   |
| Printed Name in English | Printed Name in Native Language (if other than English) |

|                         |   |
|-------------------------|---|
| Inventor's Signature    | Date  |
| David M. Chickering     |   |
| Printed Name in English | Printed Name in Native Language (if other than English) |

|                         |   |
|-------------------------|---|
| Inventor's Signature    | Date  |
| Patrice Y. Simard       |   |
| Printed Name in English | Printed Name in Native Language (if other than English) |

|  |   |
|--|---|
| Inventor's Signature<br><i>Reid Andersen</i> | Date<br>3/24/10   |
| Reid M. Andersen                             |   |
| Printed Name in English                      | Printed Name in Native Language (if other than English) |

TO:DIANNE BOUTON COMPANY:ONE MICROSOFT WAY



## UNITED STATES PATENT AND TRADEMARK OFFICE

### Facsimile Transmission

|       |              |                            |
|-------|--------------|----------------------------|
| To:   | Name:        | DIANNE BOUTON              |
|       | Company:     | ONE MICROSOFT WAY          |
|       | Fax Number:  | 14259367329                |
|       | Voice Phone: |                            |
| From: | Name:        | ASSIGNMENT SERVICES BRANCH |
|       | Voice Phone: | 571-272-3350               |

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

#### Fax Notes:

| Pg# | Description               |
|-----|---------------------------|
| 1   | Cover Page                |
| 2   | 350.TXT                   |
| 4   | Document 1, Batch 2010960 |

USPTO ASSIGNMENT SYSTEM PROCESSING

Date and time of transmission: Monday, April 19, 2010 12:44:44 PM  
Number of pages including this cover sheet: 05

TO:DIANNE BOUTON COMPANY:ONE MICROSOFT WAY




---

**UNITED STATES PATENT AND TRADEMARK OFFICE**


---

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



APRIL 19, 2010

\*501151062A\*

PTAS

DIANNE BOUTON  
ONE MICROSOFT WAY  
PATENT GROUP DOCKETING DEPT  
REDMOND, WA 98052

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 04/17/2010

REEL/FRAME: 024248/0975

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 329063.01

ASSIGNOR:

CHARLES, DENIS X

DOC DATE: 03/22/2010

ASSIGNOR:

CHICKERING, DAVID M

DOC DATE: 03/22/2010

ASSIGNOR:

Simrad SIMRAD PATRICE Y

DOC DATE: 03/22/2010

ASSIGNOR:

ANDERSEN, REID M

DOC DATE: 03/24/2010

ASSIGNEE:

MICROSOFT CORPORATION  
ONE MICROSOFT WAY  
REDMOND, WASHINGTON 98052



TO:DIANNE BOUTON COMPANY:ONE MICROSOFT WAY

024248/0975 PAGE 2

SERIAL NUMBER: 12748014

FILING DATE: 03/26/2010

PATENT NUMBER:

ISSUE DATE:

TITLE: GRAPH CLUSTERING

ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

TO:DIANNE BOUTON COMPANY:ONE MICROSOFT WAY

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.104/17/2010  
501151062

| SUBMISSION TYPE:  | NEW ASSIGNMENT        |               |                       |                     |                   |                    |            |                                       |            |                 |            |
|---|-----------------------|---------------|-----------------------|---------------------|-------------------|--------------------|------------|---------------------------------------|------------|-----------------|------------|
| NATURE OF CONVEYANCE:   | ASSIGNMENT            |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| CONVEYING PARTY DATA  |                       |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Denis X Charles</td> <td>03/22/2010</td> </tr> <tr> <td>David M Chickering</td> <td>03/22/2010</td> </tr> <tr> <td>Patrice Y <u>Simrad</u> <u>Simard</u></td> <td>03/22/2010</td> </tr> <tr> <td>Reid M Andersen</td> <td>03/24/2010</td> </tr> </tbody> </table> |                       | Name          | Execution Date        | Denis X Charles     | 03/22/2010        | David M Chickering | 03/22/2010 | Patrice Y <u>Simrad</u> <u>Simard</u> | 03/22/2010 | Reid M Andersen | 03/24/2010 |
| Name  | Execution Date        |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Denis X Charles   | 03/22/2010            |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| David M Chickering  | 03/22/2010            |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Patrice Y <u>Simrad</u> <u>Simard</u>   | 03/22/2010            |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Reid M Andersen   | 03/24/2010            |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| RECEIVING PARTY DATA  |                       |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| <table border="1"> <tr> <td>Name:</td> <td>Microsoft Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Microsoft Way</td> </tr> <tr> <td>City:</td> <td>Redmond</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98052</td> </tr> </table>   |                       | Name:         | Microsoft Corporation | Street Address:     | One Microsoft Way | City:              | Redmond    | State/Country:                        | WASHINGTON | Postal Code:    | 98052      |
| Name:   | Microsoft Corporation |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Street Address:   | One Microsoft Way     |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| City:   | Redmond               |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| State/Country:  | WASHINGTON            |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Postal Code:  | 98052                 |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| PROPERTY NUMBERS Total: 1   |                       |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12748014</td> </tr> </tbody> </table>   |                       | Property Type | Number                | Application Number: | 12748014          |                    |            |                                       |            |                 |            |
| Property Type   | Number                |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Application Number:   | 12748014              |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| CORRESPONDENCE DATA   |                       |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Fax Number: (425)936-7329<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i><br>Phone: 425-707-2290<br>Email: dbouton@microsoft.com<br>Correspondent Name: Dianne Bouton<br>Address Line 1: One Microsoft Way<br>Address Line 2: Patent Group Docketing Dept<br>Address Line 4: Redmond, WASHINGTON 98052                          |                       |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| ATTORNEY DOCKET NUMBER:   | 329063.01             |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| NAME OF SUBMITTER:  | Amandeep Kaur         |               |                       |                     |                   |                    |            |                                       |            |                 |            |
| Total Attachments: 4  |                       |               |                       |                     |                   |                    |            |                                       |            |                 |            |

CH \$40.00 12748014

TO:DIANNE BOUTON COMPANY:ONE MICROSOFT WAY

source=329063-01-Exec-Assignment#page1.tif

source=329063-01-Exec-Assignment#page2.tif

source=329063-01-Exec-Assignment#page3.tif

source=329063-01-Exec-Assignment#page4.tif