

| |
|--------------------------------------|
| PATENT ASSIGNMENT COVER SHEET |
|--------------------------------------|

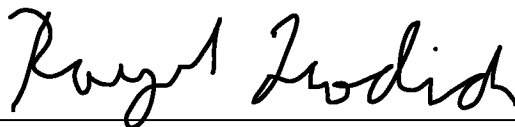
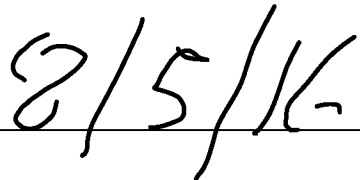
Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3995291

| | |
|---|--|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| RAYMOND J. FROELICH | 08/05/2016 |
| RECEIVING PARTY DATA | |
| Name: | MICROSOFT TECHNOLOGY LICENSING, LLC |
| Street Address: | ONE MICROSOFT WAY |
| City: | REDMOND |
| State/Country: | WASHINGTON |
| Postal Code: | 98052 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15229854 |
| CORRESPONDENCE DATA | |
| Fax Number: | (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> | |
| Phone: | 509-755-7262 |
| Email: | usdoCKET@microsoft.com |
| Correspondent Name: | WOLFE-SBMC |
| Address Line 1: | 116 W. PACIFIC AVE. |
| Address Line 2: | SUITE 300 |
| Address Line 4: | SPOKANE, WASHINGTON 99201 |
| ATTORNEY DOCKET NUMBER: | 360540.01 |
| NAME OF SUBMITTER: | CHRISTOPHER J. CULBERSON |
| SIGNATURE: | /Christopher J. Culberson Reg No. 59136/ |
| DATE SIGNED: | 08/05/2016 |
| Total Attachments: 2 | |
| source=360540.01 Executed Assignment#page1.tif | |
| source=360540.01 Executed Assignment#page2.tif | |

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, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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 |
| Raymond J. Froelich _____ Printed Name in English | _____ Printed Name in Native Language (if other than English) |