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| PATENT ASSIGNMENT COVER SHEET |
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EPAS ID: PAT5064775

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| AMER A. HASSAN | 07/20/2018 |
| RICHARD JAMES COLE | 07/20/2018 |
| MICHAEL J. DAVIS | 07/21/2018 |
| RECEIVING PARTY DATA | |
| Name: | MICROSOFT TECHNOLOGY LICENSING, LLC |
| Street Address: | ONE REDMOND WAY |
| City: | REDMOND |
| State/Country: | WASHINGTON |
| Postal Code: | 98052 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16043932 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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: | 612-373-6900 |
| Email: | USDocket@Microsoft.com |
| Correspondent Name: | SCHWEGMAN LUNDBERG & WOESSNER, P.A. |
| Address Line 1: | P.O. BOX 2938 |
| Address Line 4: | MINNEAPOLIS, MINNESOTA 55402 |
| ATTORNEY DOCKET NUMBER: | 404820-US-NP |
| NAME OF SUBMITTER: | ROBERT M. HIRNING |
| SIGNATURE: | /Robert M. Hirning/ |
| DATE SIGNED: | 07/24/2018 |
| Total Attachments: 6 | |
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I Amer A. Hassan (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “DEVICE-BASED ACCESS POINT ASSOCIATION AND TRACKING OF PHYSICAL ADDRESSES”, which:

- will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE’S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE’S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on _____ and given Application No. _____ by the following Office _____) this APPLICATION’s Application No., filing date, and Office, when known;
- was filed on _____ and was given Application No. ___ by the following Office “ _____ Patent Office ”;


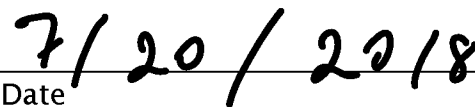
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns (“ASSIGNEE”), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (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 hereby authorizes, and requests, ASSIGNEE’S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

| Application No. | Filing Date | Office |
|-----------------|-------------|--------|
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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 |
| Amer A. Hassan _____ Printed Name in English | _____ Printed Name in Native Language (if other than English) |

I Richard James Cole ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DEVICE-BASED ACCESS POINT ASSOCIATION AND TRACKING OF PHYSICAL ADDRESSES", which:

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|  | 7/20/2018 |
| Inventor's Signature | Date |
| Richard James Cole | |
| Printed Name in English | Printed Name in Native Language (if other than English) |

I Michael J. Davis ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DEVICE-BASED ACCESS POINT ASSOCIATION AND TRACKING OF PHYSICAL ADDRESSES", which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on _____ and given Application No. _____ by the following Office _____) this APPLICATION's Application No., filing date, and Office, when known;

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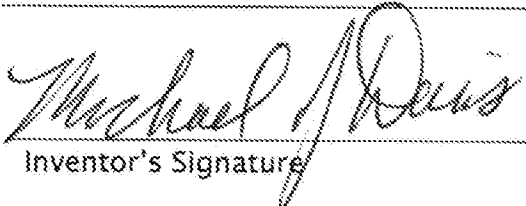
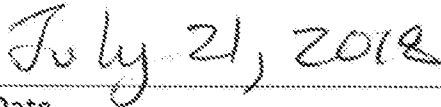
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|--|--|
|  Inventor's Signature |  Date |
| Michael J. Davis Printed Name in English | Printed Name in Native Language (if other than English) |