07/11/2018 504999513

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5046261

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| DONNA KATHERINE LONG | 01/31/2018 |
| JENNIFER JEAN CHOI | 02/01/2018 |
| PRIYA GANADAS | 02/01/2018 |
| JAMIE R. CABACCANG | 02/01/2018 |
| LASEAN TEE SMITH | 01/31/2018 |
| KENNETH LIAM KIEMELE | 01/31/2018 |
| EVAN L. JONES | 07/04/2018 |
| JOHN BENJAMIN HESKETH | 02/01/2018 |
| BRYANT DANIEL HAWTHORNE | 02/01/2018 |

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: | 15889099 |

CORRESPONDENCE DATA

Fax Number: (425)936-7329

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.

Phone: 425-707-9382

Email: usdocket@microsoft.com

ASSAL MEFTAHI Correspondent Name:

Address Line 1: ONE MICROSOFT WAY

Address Line 2: PATENT GROUP DOCKETING DEPT Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER: 403593-US-NP

VLADIMIR A. KOZYREV NAME OF SUBMITTER:

PAIENI REEL: 046324 FRAME: 0426 504999513

| SIGNATURE: | /VLADIMIR A. KOZYREV/ | | | | | |
|---|---|--|--|--|--|--|
| DATE SIGNED: | DATE SIGNED: 07/11/2018 | | | | | |
| Total Attachments: 18 | Total Attachments: 18 | | | | | |
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PATENT ASSIGNMENT

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| inventor | of | subj | ect | matter | ("INVENTION | l") disclo | sed and/o | r claim | ed in a | patent |
| application | on e | entitle | ed "; | <u>SHARINO</u> | <u>MEASURED</u> | VALUES | OF PHYSIC | AL SPAC | CE PARAM | <u>IETERS</u> " |
| ("APPLICA | ATIC | N"), v | whic | :h: | | | | | | |
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| | ASSIC | SNEE | e'S legal | representa | itive, Mic | rosoft Te | chnology | Licensin | g, |
| | LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S | | | | | | | | |
| | LEGAL REPRESENTATIVES), to insert here in parentheses (filed or February 5, 2018 and given Application No15/889,099 | | | | | | | | у |
| | the f | ollov | ving Offi | ce | | | |) th | is |
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| | by th | e fo | llowina (|)ffice " | | | | 27 . | |

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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PATENT ASSIGNMENT

MS Docket No.: 403593-US-NP

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"));

| Inventor's Signature | 3l Date | Jan | 2018 |
|--------------------------|------------|---------------|------------|
| Donna Katherine LONG | | | |
| Printed Name in English | Printed I | Name in Nativ | e Language |
| | (if other | than English) | |

| PATE | ENT ASSIGNMEN | IT MS Dock | cet No.: <u>403593-US-NP</u> |
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| inventor of | subject matter entitled " <u>SHARINC</u> | ("INVENTION") disclosed | inal inventor or an original joint d and/or claimed in a patent PHYSICAL SPACE PARAMETERS' |
| | ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN | representative, Microso oft Way, Redmond, Wash FATIVES), to insert here i | othorizes, and requests, oft Technology Licensing, ington 98052 (ASSIGNEE'S n parentheses (filed on No. 15/889,099 by |
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| pehalf of its desirous of a right of prior patents deriv | elf and its succe acquiring, the enti ity, in the INVENT red therefrom, suc ted States, its | essors and assigns ("AS ire and exclusive rights, ION and the APPLICATIO th as continuing applicat | ton limited liability company, on SIGNEE"), is entitled to, and is title and interest, including the N (and all other applications and tions, in whole or in part, in and reign countries ("APPLICATION |
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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"));

| Juf-Oli | 8/1/2018 |
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| Inventor's (Agnature | Date |
| Jennifer Jean CHOI | |
| Printed Name in English | Printed Name in Native Language |
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PATENT ASSIGNMENT

MS Docket No.: 403593-US-NP

| l Priv | a GANADAS ("AS: | SIGNOR") am the i | original invent | or or an original join: |
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| inventor of | subject matter | ("INVENTION") dis | closed and/or | claimed in a paten |
| application ("APPLICATION") | | <u> MEASURED VALUI</u> | <u>ES OF PHYSICA</u> | AL SPACE PARAMETERS |
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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"));

| Quee 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2/1/2018 |
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| Inventor's Signature | Date |
| Priya GANADAS | |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |

PATENT ASSIGNMENT MS Docket No.: <u>403593-US-NP</u>

| I <u>Jamie R. CABACCANG</u> (| "ASSIGNOR") am the origir | ial inventor or an original joint | | |
|---|---------------------------------------|--|--|--|
| inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent | | | | |
| application entitled "SHARING | MEASURED VALUES OF P | HYSICAL SPACE PARAMETERS" | | |
| ("APPLICATION"), which: | | | | |
| oxtimes will be filed. | ASSIGNOR hereby auth | orizes, and requests, | | |
| | representative, Microsoft | | | |
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| Microsoft Tachrology Li | consina IIC a Machinata | n limited liability company, on | | |
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| behalf of itself and its succe | • | | | |
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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"));

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| Inventor's Signature | Date Date |
| Jamie R. CABACCANG Printed Name in English | Printed Name in Native Language |
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| ا <u>LaSean Tee SMITH</u> (۴۷ | SSIGNOR") am the origina | al inventor or an original join |
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| inventor of subject matter | ("INVENTION") disclosed | and/or claimed in a patent |
| application entitled "SHARING | MEASURED VALUES OF F | <u>PHYSICAL SPACE PARAMETERS</u> |
| ("APPLICATION"), which: | | |
| ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN February 5, 2018 the following Off | ASSIGNOR hereby authorepresentative, Microsoft of Way, Redmond, Washing TATIVES), to insert here in and given Application lice | t Technology Licensing, gton 98052 (ASSIGNEE'S parentheses (filed on No. 15/889,099 by) this |
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| Microsoft Technology Libehalf of itself and its succe desirous of acquiring, the enti right of priority, in the INVENTI patents derived therefrom, suc for the United States, its DERIVATIVES")); | ssors and assigns ("ASSI re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio | tle and interest, including the (and all other applications and ins, in whole or in part, in and |
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Page 1 of 2

MS Docket No.: <u>403593-US-NP</u>

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"));

| Selecus S | 1/31/2019 |
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| Inventor's Signature | Date |
| LaSean Tee SMITH Printed Name in English | Printed Name in Native Language (if other than English) |

PATENT ASSIGNMENT MS Docket No.: 403593-US-NP I Kenneth Liam KIEMELE ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SHARING MEASURED VALUES OF PHYSICAL SPACE PARAMETERS" ("APPLICATION"), 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 February 5, 2018 and given Application No. 15/889,099 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 "______ 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

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;

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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"));

| Lin Filler | 01/31/18 |
|-------------------------|---------------------------------|
| Inventor's Signature | Date |
| Kenneth Liam KIEMELE | |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |

| PATE | NT ASSIGNMEN | Γ MS Docket | No.: <u>403593-US-NP</u> |
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| inventor of | subject matter (entitled " <u>SHARING</u> | "INVENTION") disclosed | inventor or an original joint and/or claimed in a patent <u>HYSICAL SPACE PARAMETERS</u> " |
| | ASSIGNEE'S legal LLC, One Microsol LEGAL REPRESENT | ASSIGNOR hereby auth representative, Microsoft tway, Redmond, Washing ATIVES), to insert here in and given Application for the ce | Technology Licensing, gton 98052 (ASSIGNEE'S parentheses (filed on No by |
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| behalf of its desirous of a right of prior patents deriv | self and its successive acquiring, the entition its entition its entition in the INVENTING the entition is the entition in the entition its entition. | ssors and assigns ("ASSIONE of and exclusive rights, to the CON and the APPLICATION has continuing application | n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ins, in whole or in part, in and ign countries ("APPLICATION |
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for good and valuable consideration, the receipt of which is hereby arthophedged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEL 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 print part, in and for the United States, its territories, and all foreign countries, if APPLICATION DERIVATIVES).

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for fitigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Inventor's Constitue

Date

Evan L. JONES

Printed Name in English

Printed Name in Native Language

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of other than English)

PATENT ASSIGNMENT MS Docket No.: 403593-US-NP

| joint invento | or of subject mati entitled " <u>SHARING</u> | ter ("INVENTION") disclos | original inventor or an origina sed and/or claimed in a paten PHYSICAL SPACE PARAMETERS |
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| | ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN February 5, 201 the following Off | representative, Microso oft Way, Redmond, Washi TATIVES), to insert here in <u>8</u> and given Application ice | thorizes, and requests, ft Technology Licensing, ngton 98052 (ASSIGNEE'S n parentheses (filed on n No. 15/889,099 by this date, and Office, when |
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| behalf of its desirous of a right of prior patents deriv | self and its succe acquiring, the enti rity, in the INVENTI ved therefrom, suc ited States, its | essors and assigns ("ASS ire and exclusive rights, ION and the APPLICATION th as continuing applicat | on limited liability company, or SIGNEE"), is entitled to, and is title and interest, including the land all other applications and ions, in whole or in part, in and eign countries ("APPLICATION |
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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"));

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| Inventor's Signature | Date |
| John Benjamin HESKETH | |
| Printed Name in English | Printed Name in Native Language |
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PATENT ASSIGNMENT MS Docket No.: 403593-US-NP

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| l <u>Bryant Daniel HAWTH</u> (| <u> </u> | original inventor or an original | | |
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| joint inventor of subject mat | ter ("INVENTION") disclose | ed and/or claimed in a patent | | |
| application entitled "SHARING | MEASURED VALUES OF F | PHYSICAL SPACE PARAMETERS" | | |
| ("APPLICATION"), which: | | | | |
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| | representative, Microsof | | | |
| LLC, One Microso | oft Way, Redmond, Washin | gton 98052 (ASSIGNEE'S | | |
| LEGAL REPRESEN | TATIVES), to insert here in | parentheses (filed on | | |
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| Microsoft Technology Li | censing, LLC, a Washingto | n limited liability company, on | | |
| behalf of itself and its succe | ssors and assigns ("ASSI | GNEE"), is entitled to, and is | | |
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Page 1 of 2

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"));

| | : / /> |
|-------------------------|---------------------------------|
| Inventor's Signature | $\frac{1/2/18}{\text{Date}}$ |
| Bryant Daniel HAWTHORNE | |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |