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PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| KARIN STRAUSS | 02/10/2017 |
| YUAN-JYUE CHEN | 02/07/2017 |

RECEIVING PARTY DATA

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| City: | REDMOND |
| State/Country: | WASHINGTON |
| Postal Code: | 98052 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15431897 |

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | MS1-6619US |
|-------------------------|---------------|
| NAME OF SUBMITTER: | LINDA CLARK |
| SIGNATURE: | /LINDA CLARK/ |
| DATE SIGNED: | 05/18/2017 |

Total Attachments: 4

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PATENT REEL: 042427 FRAME: 0799

| PATENT AS | SIGNMENT | MS Docket | No.: | 360841.01/400069-US-N |
|---|--|--|---|--|
| | | Attorney Docket | No.: | MS1- 6619US |
| or an origina | l joint inventor of su lication entitled | len ("ASSIGNOI bject matter ("INVENTION") (TO POLYNUCLEOTIDES FOR SE | disclo | sed and/or claimed in |
| ("APPLICATIO | DN"), which: | | | |
| | ASSIGNEE'S legal r LLC., One Microsof LEGAL REPRESENT on <u>February 14, 20</u> the following Office | ASSIGNOR hereby authoric epresentative, Microsoft Te t Way, Redmond, Washingtor ATIVES), to insert here in D17 and given Application No e US – United States Patent ar s Application No., filing dat | chnol n 980 pare n. <u>15</u> nd Tra | ogy Licensing, 52 (ASSIGNEE'S entheses (filed /431,897by demark Office) |
| | | and was given App by the following Office <u>US</u> ark Office: | | |
| behalf of itse of acquiring priority, in the derived ther United State ASSIC to insert the APPLICATION | elf and its successors, the entire and exi- he INVENTION and the from, such as cont s, its territories, and INOR hereby authori e Application No., f N DERIVATIVES after | | entiti rest, i er ap; e or i CATK 'S LEC | led to, and is desirous neluding the right of plications and patents n part, in and for the DN DERIVATIVES")); |
| Application | i No. | Filing Date C |)ffice | |
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Page 1 of 2

MS Docket No.: 360841.01/400069-US-NP

Attorney Docket No.: MS1-6619US

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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).

| Ywan-Jyhe Chen | 82/87/2017 |
|-------------------------|--|
| Inventor's Signature | Date |
| Yuan-Jyue Chen | 体 图 是 |
| Printed Name in English | Printed Name in Native Language (if other than English) |

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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RECORDED: 05/18/2017

MS Docket No.: 360841.01/400069-US-NP

Attorney Docket No.: MS1-6619US

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).

| Xorin Straus | 02/10/2017 |
|-------------------------|---------------------------------|
| Inventor's Signature | Date |
| Karin Strauss | |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |