506496278 02/09/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6543054

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| MIN WANG | 11/30/2020 |
| MANGESH CHANSARKAR | 02/08/2021 |
| NING LUO | 12/01/2020 |
| GENGSHENG ZHANG | 12/01/2020 |
| DAVID TUCK | 11/30/2020 |
| BO ZHENG | 12/01/2020 |
| YINGHUA YANG | 12/01/2020 |
| HAN ZHANG | 12/01/2020 |

RECEIVING PARTY DATA

| Name: | QUALCOMM INCORPORATED | |
|-----------------|-----------------------|--|
| Street Address: | 5775 MOREHOUSE DRIVE | |
| City: | SAN DIEGO | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 92121-1714 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16998612 |

CORRESPONDENCE DATA

Fax Number:

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.

Email: lbreeden@wavsip.com

Correspondent Name: WEAVER AUSTIN VILLENEUVE & SAMPSON LLP

Address Line 1: P.O. BOX 70250

Address Line 4: OAKLAND, CALIFORNIA 94612-0250

| ATTORNEY DOCKET NUMBER: | QLCMP096US/193476 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | LELIA BREEDEN |
| SIGNATURE: | /Lelia Breeden/ |
| DATE SIGNED: | 02/09/2021 |

Total Attachments: 24 source=193476 Assignment as filed 09_February_2021#page1.tif source=193476 Assignment as filed 09 February 2021#page2.tif source=193476 Assignment as filed 09 February 2021#page3.tif source=193476 Assignment as filed 09 February 2021#page4.tif source=193476 Assignment as filed 09 February 2021#page5.tif source=193476 Assignment as filed 09 February 2021#page6.tif source=193476 Assignment as filed 09 February 2021#page7.tif source=193476 Assignment as filed 09 February 2021#page8.tif source=193476 Assignment as filed 09 February 2021#page9.tif source=193476 Assignment as filed 09 February 2021#page10.tif source=193476 Assignment as filed 09 February 2021#page11.tif source=193476 Assignment as filed 09 February 2021#page12.tif source=193476 Assignment as filed 09 February 2021#page13.tif source=193476 Assignment as filed 09 February 2021#page14.tif source=193476 Assignment as filed 09_February_2021#page15.tif source=193476 Assignment as filed 09 February 2021#page16.tif source=193476 Assignment as filed 09 February 2021#page17.tif source=193476 Assignment as filed 09 February 2021#page18.tif source=193476 Assignment as filed 09 February 2021#page19.tif source=193476 Assignment as filed 09 February 2021#page20.tif source=193476 Assignment as filed 09 February 2021#page21.tif source=193476 Assignment as filed 09 February 2021#page22.tif source=193476 Assignment as filed 09 February 2021#page23.tif source=193476 Assignment as filed 09 February 2021#page24.tif

WHEREAS, WE,

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- 2. Mangesh CHANSARKAR, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 3. Ning LUO, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 4. Gengsheng ZHANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 5. David TUCK, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 6. Bo ZHENG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 7. Yinghua YANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 8. Han ZHANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.

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WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have

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AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

| Done at | Tustin, CA | , on 11/30/2520 | Min WANG | |
|-------------------------------|-------------|-----------------|--------------------|------------------------|
| | City, State | Date | Nin Wang | ****** |
| Done at | | , 08 | | |
| | City, State | Date | Mangesh CHANSARKAR | |
| Done at _ | | , on Date | | |
| | City, State | Date | Ning LUO | |
| Done at _ | | on | Gengsheng ZHANG | |
| | City, State | Date | Gengsheng ZHANG | |
| Done at | | , on | David TUCK | ئەتەرىدەن ئەتەرىدەن |
| | City, State | Ome | Daym IUCK | |
| Done at _ | | , on | Bo ZHENG | ****** |
| | City, State | Date | B6 ZHENG | |
| Done at _ | | , on | V2L. 374 M/2 | |
| | City, State | rxse | Yinghua YANG | |
| Done at | | .08 | | |
| an anakar arab _{kek} | City, State | , on Date | Han ZHANG | cicione; |

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Qualcomm Reference Number: 193476 Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

| Done at | | , on | | |
|-----------|-------------|---------|--------------------|--------------------|
| - | City, State | | Date | Min WANG |
| Done at _ | Irvine, CA | , on | 02/08/2021 Date | Mangesh CHANSARKAR |
| Done at _ | City, State | , on | Date | Ning LUO |
| Done at _ | City, State | _, on _ | Date | Gengsheng ZHANG |
| Done at _ | City, State | , on | Date | David TUCK |
| Done at | City, State | _, on | Date | Bo ZHENG |
| Done at | City, State | _, on | Date | Yinghua YANG |
| Done at | City, State | _, on _ | Date | Han ZHANG |

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| Done at | | . on | |
|---------------------------------------|-------------|-------------------------|--------------------|
| | City, State | On Date | Min WANG |
| | | | |
| Done at | 1. 1 | ., 00 | |
| | City, State | Date | Mangesh CHANSARKAR |
| | ¥ | .s. x š | |
| Done at (| upertino.Ci | 4, on 12/1/2020 Date | |
| | City, State | Date | Ning LUO |
| | | | |
| Done at | | , on | |
| | City, State | Date | Gengsheng ZHANG |
| | | | |
| Done at | | on | |
| · · · · · · · · · · · · · · · · · · · | City, State | Date | David TUCK |
| | | | |
| Done at | | , 08 | |
| | City, State | , on | Bo ZHENG |
| | | | |
| Done at | | * ou | |
| | City, State | , on | Yinghua YANG |
| | | | |
| | | | |
| Done at_ | | , on | Han ZHANG |
| | City, State | 1.3318 | TIME EXILAGE |

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| Done at | | , on | |
|------------------|--------------|-----------------|------------------------------------|
| | City, State | , on Date | Min WANG |
| Done at_ | | , on | |
| | City, State | Date | Mangesh CHANSARKAR |
| Done at _ | | , on | |
| | | | Ning LUO |
| Done at (| Supertine, a | , on 12/11/2220 | Gengsheng Zhenr Gengsheng ZHANG |
| | Čity, State | Date | Gengshéng ZHANG |
| Done at | City, State | , on | |
| | City, State | Date | David TUCK |
| Done at _ | | , on | |
| | City, State | , on | Bo ZHENG |
| Done at | L | , on | |
| | City, State | , on Date | Yinghua YANG |
| 574 60100 | | | |
| Done at _ | City, State | , on | Han ZHANG |
| | A CONTRACTOR | Aresto | ARMON KARRENTEN |

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| Done at | , on | | |
|-----------|-----------------------------------------------------------------|------------|--------------------|
| | City, State | Date | Min WANG |
| | $x_{1} = x_{2}$ | | |
| Done at _ | City, State | | |
| | City, State | Date | Mangesh CHANSARKAR |
| | | | |
| Done at_ | , on _ | | |
| | City, State | Date | Ning LUO |
| | | | |
| Done at _ | , on | | |
| | , on _ City, State | Date | Gengsheng ZHANG |
| Done at ≦ | A <i>N <u>Luan Caputica</u>s</i> pon_ City, State <i>(</i> A | //-30-2020 | David Tech |
| | City, State A | Date | David TUCK |
| | | | |
| Done at _ | , on | | |
| | City, State | Date | Bo ZHENG |
| | | | |
| Done at | , on | | |
| | City, State | Date | Yinghua YANG |
| | | | |
| | | | |
| Done at | , on | | |
| | City, State | Date | Han ZHANG |

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WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have

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AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument:

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PATENT Qualcomm Reference Number: 193476 Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

| Done at | , on | |
|------------------------|-------------------------|--------------------|
| City, State | _, on Date | Min WANG |
| Done at | , on | |
| Done atCity, State | Date | Mangesh CHANSARKAR |
| Done at | , on | |
| Done atCity, State | Date | Ning LUO |
| Done atCity, State | , on | |
| City, State | Date | Gengsheng ZHANG |
| Done at | . on | |
| Done atCity, State | Date | David TUCK |
| Done at Sunny Vole, CA | on 12/0 /2020 Date | Bo ZHENG |
| Done atCity, State | , on | Yinghua YANG |
| Done at | _, on | |
| City, State | Date | Han ZHANG |

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| Done at | | , 011 | |
|------------|-------------|------------------|--------------------------------|
| · | City, State | ON | Min WANG |
| Done at _ | | ₃ -on | |
| | City, State | Date | Mangesh CHANSARKAR |
| Done at _ | | , on | Ning LUO |
| | City, State | Date | Ning LUO |
| Done at | | , on | |
| | City, State | Daie | Gengsheng ZHANG |
| Done at | | , on | |
| | City, State | Date | David TUCK |
| Done at _ | | _, on | |
| | City, State | Date | Bo ZHENG |
| Done at | San Jose, C | 4. on (2/01/2020 | USRA WA YORZ Vingboa VANG J |
| | City, State | Date | Yi6ghua YANG 🦪 🗸 |
| 200 200 | | | |
| Done at _ | City, State | , on Date | Han ZHANG |

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| Done at _ | City, State | .cn_ | Date | Ning LUO |
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| Done at _ | City, State | _, on | Date | Bo ZHENG |
| Done at | City, State | , on | Date | Yinghua YANG |
| Done at 2 | onta Clam, C | <u> </u> | 2/1/2020 | Han ZHANG |
| | City, State | | Date | Han ZHANG |