PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6233126

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------|----------------|
| FAN LUO | 08/29/2018 |
| FENG LI | 07/24/2020 |
| YUE LIU | 07/24/2020 |
| CHAOYI YAN | 07/24/2020 |

RECEIVING PARTY DATA

| Name: | HUAWEI TECHNOLOGIES CO., LTD. |
|-------------------|--------------------------------|
| Street Address: | HUAWEI ADMINISTRATION BUILDING |
| Internal Address: | BANTIAN, LONGGANG DISTRICT |
| City: | SHENZHEN, GUANGDONG |
| State/Country: | CHINA |
| Postal Code: | 518129 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16887644 |

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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.

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| ATTORNEY DOCKET NUMBER: | 43968-1219001 |
|-------------------------|------------------------|
| NAME OF SUBMITTER: | JOHN GUSTAV-WRATHALL |
| SIGNATURE: | /John Gustav-Wrathall/ |
| DATE SIGNED: | 08/04/2020 |

Total Attachments: 4

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PATENT REEL: 053392 FRAME: 0684

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> PATENT REEL: 053392 FRAME: 0685

Attorney Docket No. <u>43968-121</u>9001 Client Reference No. 85516865US08

ASSIGNMENT

WHEREAS, WE,

Fan Luo Feng Li Huawei Administration Building Huawei

Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Yue Liu

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129. Guangdong

P.R.CHINA; and

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Chaoyi Yan

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129. Guangdong

P.R.CHINA;

have invented and own a certain invention entitled:

CALIBRATION METHOD AND APPARATUS

| for which invention we have executed | l an application (provisional | or non-provisional) for a U.S |
|--------------------------------------|-------------------------------|-------------------------------|
| patent, which was filed on | under U.S. Application No. | and |

WHEREAS, HUAWEI TECHNOLOGIES CO.,LTD., Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA;, hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

Now, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and

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PATENT REEL: 053392 FRAME: 0686 In re Appln. of Luo et al. Attorney Docket No. 43968-1219001

other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

| Date Aug 29, 2018 | Fon Luo | |
|-------------------|------------|------------------------------------|
| V | Fan Luo | |
| Date | | |
| | Feng Li | |
| T) | | |
| Date | Yue Liu | FM MANICANA MIN MIN A DE MIN MEM A |
| Dete | | |
| Date | Chaoyi Yan | |

PATENT

Attorney Docket No. 43968-1219001 Client Reference No. 85516865US08

ASSIGNMENT

WHEREAS, WE,

Fan Luo Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Yue Liu Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and Feng Li Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Chaoyi Yan Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA;

have invented and own a certain invention entitled:

CALIBRATION METHOD AND APPARATUS

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2020-05-29, under U.S. Application No. 16887644 and

WHEREAS, HUAWEI TECHNOLOGIES CO.,LTD., Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA;, hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

Now, Therefore, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in

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In re Appln. of Luo et al. Attorney Docket No. <u>43968-1</u>219001

making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

| Date | Fan Luo |
|--------------------|-----------------------|
| Date 2020 · 7 · 24 | Feng 17 Feng Li |
| Date 2020. 7. 24 | Yue Liu Yue Liu |
| Date 2020.7.24 | Chaoyi Yan Chaoyi Yan |