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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6388536

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the TYPO IN THE ASSIGNEE NAME FROM HUAWEI DEVICE CO., LTD. TO HUAWEI TECHNOLOGIES CO., LTD. previously recorded on Reel 053407 Frame 0638. Assignor(s) hereby confirms the ASSIGNMENT. |
| RESUBMIT DOCUMENT ID: | 506220432 |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| JINLIN PENG | 06/12/2019 |
| PENGPENG DONG | 06/23/2020 |
| ZONGJIE WANG | 12/18/2017 |
| PENG ZHANG | 06/10/2019 |

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: | 16402818 |

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.

Phone: 858-678-5070

Email: apsi@fr.com

Correspondent Name: FISH & RICHARDSON P.C. (HUAWEI TECHNOLOGIES)

Address Line 1: P.O. BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

| | |
|--------------------------------|------------------------|
| ATTORNEY DOCKET NUMBER: | 43968-0599001 |
| NAME OF SUBMITTER: | JOHN GUSTAV-WRATHALL |
| SIGNATURE: | /John Gustav-Wrathall/ |

DATE SIGNED:

11/06/2020

Total Attachments: 10

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6235906

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|---|--|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JINLIN PENG | 06/12/2019 |
| PENGPENG DONG | 06/23/2020 |
| ZONGJIE WANG | 12/18/2017 |
| PENG ZHANG | 06/10/2019 |
| RECEIVING PARTY DATA | |
| Name: | HUAWEI DEVICE 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: | 16402818 |
| CORRESPONDENCE DATA | |
| Fax Number: | (877)769-7945 |
| <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: | 858-678-5070 |
| Email: | apsi@fr.com |
| Correspondent Name: | FISH & RICHARDSON P.C. (HUAWEI TECHNOLOGIES) |
| Address Line 1: | P.O. BOX 1022 |
| Address Line 4: | MINNEAPOLIS, MINNESOTA 55440-1022 |
| ATTORNEY DOCKET NUMBER: | 43968-0599001 |
| NAME OF SUBMITTER: | JOHN GUSTAV-WRATHALL |
| SIGNATURE: | /John Gustav-Wrathall/ |
| DATE SIGNED: | 08/05/2020 |
| Total Attachments: 8 | |
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ASSIGNMENT

WHEREAS, WE,

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

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

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

Peng Zhang
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R.CHINA;

have invented and own a certain invention entitled:

DATA TRANSMISSION METHOD AND APPARATUS

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2019-05-03, under U.S. Application No. 16402818 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

In re Appln. of Peng et al.
Attorney Docket No. 43968-0599001

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 Jun 12, 2019

Jinlin Peng
Jinlin Peng

Date _____

Pengpeng Dong

Date _____

Zongjie Wang

Date _____

Peng Zhang

ASSIGNMENT

WHEREAS, WE,

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

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

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

Peng Zhang
Huawei Administration Building
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IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date _____
Jinlin Peng

Date 2020-6-23
Pengpeng Dong
Pengpeng Dong

Date _____
Zongjie Wang

Date _____
Peng Zhang

ASSIGNMENT

WHEREAS, WE,

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

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

Zongjie Wang
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
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In re Appln. of Peng et al.
Attorney Docket No. 43968-0599001

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 _____

Jinlin Peng

Date _____

Pengpeng Dong

Date 2017.12.18

Zongjie Wang

Zongjie Wang

Date _____

Peng Zhang

PATENT
Attorney Docket No. 43968-0599001
Client Reference No. 85227872US06

ASSIGNMENT

WHEREAS, WE,

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

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

Zongjie Wang
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
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Peng Zhang
Huawei Administration Building
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IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date _____

Jinlin Peng

Date _____

Pengpeng Dong

Date _____

Zongjie Wang

Date 2019/6/10

Peng ZHANG

Peng Zhang