502177486 12/27/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------|----------------|
| Ping Fang | 12/21/2012 |
| Zhiming Ding | 12/21/2012 |
| Guiming Shu | 12/21/2012 |

RECEIVING PARTY DATA

| Name: | Huawei Device Co., Ltd. |
|-------------------|-------------------------------------|
| Street Address: | Building B2, Huawei Industrial Base |
| Internal Address: | Bantain, Longgang District |
| City: | SHENZHEN, GUANGDONG |
| State/Country: | CHINA |
| Postal Code: | 518129 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 13728673 | |

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Address Line 4: Chicago, ILLINOIS 60610

| ATTORNEY DOCKET NUMBER: | 13674-1130 |
|-------------------------|---------------------|
| NAME OF SUBMITTER: | Gustavo Siller, Jr. |

Total Attachments: 3

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> **PATENT** REEL: 029535 FRAME: 0993

Client/Matter No. 13674-1130 Client Ref. No. 83137891US03

| | RECORDATION FORM COVER SHEET PATENTS ONLY | | |
|--|---|--------|--|
| | To the Director of the U.S. Patent and Trademark Office: Pleas | e reco | rd the attached documents or the new address(es) below: |
| 1. | Name of conveying Party(ies): | 2. | Name and Address of receiving Party(ies): |
| | PING FANG/DECEMBER 21, 2012 | | Name: HUAWEI DEVICE CO.,LTD. |
| Δd | ZHIMING DING/DECEMBER 21, 2012 GUIMING SHU/DECEMBER 21, 2012 | | Address: Building B2, Huawei Industrial Base Bantian, Longgang District Shenzhen, Guangdong, 518129 P.R. China |
| 3. | dditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No Nature of Conveyance/Execution Date(s): | - | |
| | Execution Date(s): December 21, 2012 | | |
| | | | |
| | Assignment | | Additional name(s) and addresses attached? ☐ Yes ☒ No |
| 4. Application or Patent Number(s). | | | |
| A. | Patent Application No.(s): | В. | Patent No.(s): |
| | Additional numbers at | ached | ? □ Yes ⊠ No |
| 5. | Name and address of party to whom correspondence concerning document should be mailed: | 6. | Total no. of applications & patents involved: 1 |
| | | 7. | Total Fee (37 CFR 1.21(h) & 3.41) \$ 40.00 |
| | BRINKS HOFER GILSON & LIONE PO BOX 10395 | | Authorize charge by credit card Authorize charge to Deposit Account No. 23-1925 Enclosed None required (government interest not affecting title) |
| CHICAGO, IL 60610 Phone: (312) 321-4200 | | 8. | Payment Information: |
| | Fax: (312) 321-4299 | | ☐ Credit Card: Last 4 Numbers Expiration Date |
| | | b. | Charge fee and/or any Deficiencies to Deposit Account Number 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione |
| 9. | Signature: /Gustavo Siller, Jr./ | | December 27, 2012 |
| | Signature | | Date |
| | Gustavo Siller, Jr. Name of Person Signing | _ | Total no. of pages including coversheet, attachments and documents: 3 |

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, PO Box 1450, Alexandria, VA 22313-1450

PATENT REEL: 029535 FRAME: 0994

Attorney Docket No. _____ Client Reference No. 83137891US03

ASSIGNMENT

WHEREAS, WE,

Ping FANG
BuildingB2, Huawei Industrial
Base Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;and

Zhiming DING BuildingB2,HuaweiIndustrialBase Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA.:and

Guiming SHU
BuildingB2, Huawei Industrial Base
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;

| have invented and own a certain invention entitled: | |
|--|--------|
| METHOD FOR IMPLEMENTING POWER SAVING OF ACCESS POINT AND AC | CESS |
| POINT ON WIRELESS COMMUNICATION NETWORK | |
| for which invention we have executed an application (provisional or non-provisional) for a | a U.S. |
| patent, which was filed on, under U.S. Application No, | |

WHEREAS, HUAWEI DEVICE CO., LTD., of BuildingB2, Huawei Industrial Base, 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

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PATENT REEL: 029535 FRAME: 0995

| In re Appln. | of Fang | et | al. |
|--------------|----------|----|-----|
| Altorney Do | cket No. | | |

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 December 21, 20/2 | Ping FANG |
|------------------------|---------------------------|
| | • |
| Date December 21. 2012 | Ke Cheng Yu Witness U |
| Date December 21, 2012 | Ji Chen Witness |
| | Willess |
| Date December 21, 20/2 | Zhiming DING Zhiming DING |
| Date December 21. 2012 | Kechene Yu |
| Date December 21, 2012 | Ji Chen. |
| | Witness |
| Date December N. 2012 | Gring Sw |
| | Guiming SHU |
| Date December 21, 2012 | Kecheng Yu. Witness |
| Date December 21, 2012 | Ji Chen Witness |