

PATENT ASSIGNMENT

Electronic Version v1.1
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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|--|---------------|----------------|---------------------|------------|---------------|------------|----------|------------|---------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yuanda Huang</td> <td>04/09/2013</td> </tr> <tr> <td>Liangchuan Li</td> <td>04/09/2013</td> </tr> <tr> <td>Ling Liu</td> <td>04/09/2013</td> </tr> <tr> <td>Lei Liu</td> <td>04/09/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Yuanda Huang | 04/09/2013 | Liangchuan Li | 04/09/2013 | Ling Liu | 04/09/2013 | Lei Liu | 04/09/2013 |
| Name | Execution Date | | | | | | | | | | |
| Yuanda Huang | 04/09/2013 | | | | | | | | | | |
| Liangchuan Li | 04/09/2013 | | | | | | | | | | |
| Ling Liu | 04/09/2013 | | | | | | | | | | |
| Lei Liu | 04/09/2013 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | Huawei Technologies Co., Ltd. | | | | | | | | | | |
| Street Address: | Huawei Administration Building | | | | | | | | | | |
| Internal Address: | Bantain, Longgang District | | | | | | | | | | |
| City: | SHENZHEN, GUANGDONG | | | | | | | | | | |
| State/Country: | CHINA | | | | | | | | | | |
| Postal Code: | 518129 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13838288</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13838288 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13838288 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 13674-1209 | | | | | | | | | | |
| NAME OF SUBMITTER: | Gustavo Siller, Jr. | | | | | | | | | | |

CH \$40.00 13838288

| | |
|--|-----------------------|
| Signature: | /Gustavo Siller, Jr./ |
| Date: | 05/07/2013 |
| Total Attachments: 4 source=13674-1209Recordation#page1.tif source=13674-1209Recordation#page2.tif source=13674-1209Recordation#page3.tif source=13674-1209Recordation#page4.tif | |

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below:

1. Name of conveying Party(ies):

YUANDA HUANG/APRIL 9, 2013
LIANGCHUAN LI/APRIL 9, 2013
LING LIU/APRIL 9, 2013
LEI LIU/APRIL 9, 2013

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and Address of receiving Party(ies):

Name: HUAWEI TECHNOLOGIES CO., LTD.

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

Additional name(s) and addresses attached? Yes No

3. Nature of Conveyance/Execution Date(s):

Execution Date(s): April 9, 2013

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other: _____

4. Application or Patent Number(s).

This document is being filed together with a new application.

A. Patent Application No.(s):
13/838,288

B. Patent No.(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

BRINKS HOFER GILSON & LIONE
PO BOX 10395
CHICAGO, IL 60610
Phone: (312) 321-4200
Fax: (312) 321-4299

6. Total no. of applications & patents involved: 1

7. Total Fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorize charge by credit card
 Authorize charge to Deposit Account No. 23-1925
 Enclosed
 None required (government interest not affecting title)

8. Payment Information:

- a. 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./

Signature

Gustavo Siller, Jr.

Name of Person Signing

May 7, 2013

Date

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

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LING LIU/APRIL 9, 2013
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/Gustavo Siller, Jr./

Signature

Gustavo Siller, Jr.

Name of Person Signing

April 16, 2013

Date

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

Attorney Docket No. _____
Client Reference No. 83129968US04

ASSIGNMENT

WHEREAS, WE,

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

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

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

Lei LIU
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

have invented and own a certain invention entitled:
METHOD AND DEVICE FOR RECEIVING MULTI-CARRIER OPTICAL SIGNAL
for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 15 Mar 2013, under U.S. Application No. 13838288 and

WHEREAS, HUAWEI TECHNOLOGIES CO., LTD., of 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

In re Appln. of Huang et al.
Attorney Docket No. _____

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 | <u>April 9, 2013</u> | <u>Yuanda HUANG</u> Yuanda HUANG |
| Date | <u>April 9, 2013</u> | <u>Enbo ZHOU</u> Witness |
| Date | <u>April 9, 2013</u> | <u>Runxia YUE</u> Witness |

| | | |
|------|----------------------|---------------------------------------|
| Date | <u>April 9, 2013</u> | <u>Liangchuan LI</u> Liangchuan LI |
| Date | <u>April 9, 2013</u> | <u>Enbo ZHOU</u> Witness |
| Date | <u>April 9, 2013</u> | <u>Runxia YUE</u> Witness |

| | | |
|------|----------------------|------------------------------|
| Date | <u>April 9, 2013</u> | <u>Ling LIU</u> Ling LIU |
| Date | <u>April 9, 2013</u> | <u>Enbo ZHOU</u> Witness |
| Date | <u>April 9, 2013</u> | <u>Runxia YUE</u> Witness |

| | | |
|------|----------------------|------------------------------|
| Date | <u>April 9, 2013</u> | <u>Lei LIU</u> Lei LIU |
| Date | <u>April 9, 2013</u> | <u>Enbo ZHOU</u> Witness |
| Date | <u>April 9, 2013</u> | <u>Runxia YUE</u> Witness |