

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>Gong Zhang</td> <td>12/21/2011</td> </tr> <tr> <td>Yi Long</td> <td>12/20/2011</td> </tr> <tr> <td>Cheng He</td> <td>12/21/2011</td> </tr> <tr> <td>Yong Cheng</td> <td>12/22/2011</td> </tr> <tr> <td>Kin Nang Lau</td> <td>12/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	Gong Zhang	12/21/2011	Yi Long	12/20/2011	Cheng He	12/21/2011	Yong Cheng	12/22/2011	Kin Nang Lau	12/22/2011
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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													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13339059</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13339059								
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Application Number:	13339059												
CORRESPONDENCE DATA													
Fax Number:	(312)321-4299												
Phone:	3123214200												
Email:	usassignments@brinkshofer.com, cbrady@brinkshofer.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	Gustavo Siller, Jr.												
Address Line 1:	Brinks, Hofer, Gilson & Lione												
Address Line 2:	P.O. BOX 10395												
Address Line 4:	Chicago, ILLINOIS 60610												
ATTORNEY DOCKET NUMBER:	13674-683												

CH \$40.00 13339059

NAME OF SUBMITTER:

Gustavo Siller, Jr.

Total Attachments: 13

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**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): GONG ZHANG/DECEMBER 21, 2011 YI LONG/DECEMBER 20, 2011 CHENG HE/DECEMBER 21, 2011 YONG CHENG/DECEMBER 22, 2011 KIN NANG LAU/DECEMBER 22, 2011 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and Address of receiving Party(ies): Name: HUAWEI TECHNOLOGIES CO., LTD. Address: Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P. R. China Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of Conveyance/Execution Date(s): Execution Date(s): <u>December 21, 2011, December 20, 2011, December 22, 2011</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other: _____	4. Application or Patent Number(s). <input checked="" type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s): B. Patent No.(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: <u>1</u> 7. Total Fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input type="checkbox"/> Authorize charge by credit card <input checked="" type="checkbox"/> Authorize charge to Deposit Account No. 23-1925 <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title) 8. Payment Information: a. <input type="checkbox"/> Credit Card: Last 4 Numbers Expiration Date b. <input checked="" type="checkbox"/> Charge fee and/or any Deficiencies to Deposit Account Number 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione
9. Signature: <u>/Gustavo Siller, Jr./</u> _____ Signature _____ Gustavo Siller, Jr. Name of Person Signing	_____ December 28, 2011 Date Total no. of pages including coversheet, attachments and documents: <u>13</u>

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

ASSIGNMENT

WHEREAS, WE,

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

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

Cheng HE
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA. and

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

Kin Nang LAU
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.

have invented and own a certain invention entitled:

Method, Apparatus and System for Transmitting Channel State Information
for which invention we have executed an application (provisional or non-provisional) for a U.S.
patent, which was filed on 21 Oct 2011, under U.S. Application No. 13278645, 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

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

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 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 DEC. 21. 2011

Gong ZHANG
Gong ZHANG

Date DEC. 21. 2011

He Xinqiang
Witness

Date DEC 21. 2011

Yang Fan
Witness

Date _____

YI LONG

Date _____

Witness _____

Date _____

Witness _____

Date December 21, 2011

Cheng HE
Cheng HE

Date Dec. 21. 2011

He Xinqiang
Witness

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Yang Fan
Witness

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Yi Long
YI LONG

Date Dec. 20, 2011

Yue Lang
Witness

Date Dec. 20, 2011

Jianfeng, XU
Witness

Date _____

Cheng HE

Date _____

Witness _____

Date _____

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Date December 22, 2011

Yong Cheng
Yong CHENG

Date December 22, 2011

Ruowei Fu
Witness

Date December 22, 2011

M. B...
Witness

Date _____

Kin Nang LAU

Date _____

Witness

Date _____

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Kin Wang LAU

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Witness  Alex Ng

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Witness  Elvina Wong