

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Yunhai Liu</td> <td>11/28/2012</td> </tr> <tr> <td>Junfeng Diao</td> <td>11/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yunhai Liu	11/28/2012	Junfeng Diao	11/23/2012
Name	Execution Date						
Yunhai Liu	11/28/2012						
Junfeng Diao	11/23/2012						
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>13715646</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13715646		
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Application Number:	13715646						
CORRESPONDENCE DATA							
Fax Number:	3123214299						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	312)321-4200						
Email:	CBRADY@BRINKSHOFER.COM, USASSIGNMENTS@BRINKSHOFER.COM						
Correspondent Name:	Gustavo Siller, Jr.						
Address Line 1:	Brinks Hofer Gilson & Lione						
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ATTORNEY DOCKET NUMBER:	13674-1080						
NAME OF SUBMITTER:	Gustavo Siller, Jr.						
Total Attachments: 5							

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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):**  
 YUNHAI LIU/NOVEMBER 28, 2012  
 JUNFENG DIAO/NOVEMBER 23, 2012

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  
 P.R. China

Additional name(s) and addresses attached?  Yes  No

**3. Nature of Conveyance/Execution Date(s):**  
 Execution Date(s): November 28, 2012 and November 23, 2012

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): \_\_\_\_\_ B. Patent No.(s): \_\_\_\_\_

Additional numbers attached?  Yes  No

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

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

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

**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./ \_\_\_\_\_ December 14, 2012  
 Signature Date  
 \_\_\_\_\_ Gustavo Siller, Jr. \_\_\_\_\_  
 Name of Person Signing

Total no. of pages including coversheet, attachments and documents: 5

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,**

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

Junfeng DIAO  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA;

have invented and own a certain invention entitled:  
**ROUTING SWITCH APPARATUS, NETWORK SWITCH SYSTEM, AND ROUTING SWITCH METHOD**  
for which invention we have executed 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.**, 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 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

In re Appln. of Liu et al.  
Attorney Docket No. \_\_\_\_\_

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 Nov. 28, 2012

Yunhai LIU  
Yunhai LIU

Date Nov 28, 2012

Liwen LONG  
Witness

Date Nov 28, 2012

Wenjun GU  
Witness

=====

Date \_\_\_\_\_

\_\_\_\_\_  
Junfeng DIAO

Date \_\_\_\_\_

\_\_\_\_\_  
Witness

Date \_\_\_\_\_

\_\_\_\_\_  
Witness

**ASSIGNMENT**

**WHEREAS, WE,**

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

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Huawei Administration Building  
Bantian, Longgang District  
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**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.

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

Date \_\_\_\_\_ Yunhai LIU

Date \_\_\_\_\_ Witness

Date \_\_\_\_\_ Witness

Date Nov 23, 2012 Junfeng DIAO  
Junfeng DIAO

Date Nov 23, 2012 Yong WANG  
Witness

Date Nov 23, 2012 Shujie ZHANG  
Witness