

## 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>Wei Bai</td> <td>12/14/2011</td> </tr> <tr> <td>Bingyu Qu</td> <td>12/14/2011</td> </tr> <tr> <td>Sha Ma</td> <td>12/20/2011</td> </tr> <tr> <td>Wei Jin</td> <td>12/19/2011</td> </tr> <tr> <td>Yang Li</td> <td>12/19/2011</td> </tr> <tr> <td>Wei Zhang</td> <td>12/16/2011</td> </tr> </tbody> </table>		Name	Execution Date	Wei Bai	12/14/2011	Bingyu Qu	12/14/2011	Sha Ma	12/20/2011	Wei Jin	12/19/2011	Yang Li	12/19/2011	Wei Zhang	12/16/2011
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>HUAWEI TECHNOLOGIES CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>Huawei Administration Building</td> </tr> <tr> <td>Internal Address:</td> <td>Bantian, Longgang District</td> </tr> <tr> <td>City:</td> <td>Shenzhen, Guangdong</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>518129</td> </tr> </table>		Name:	HUAWEI TECHNOLOGIES CO., LTD.	Street Address:	Huawei Administration Building	Internal Address:	Bantian, Longgang District	City:	Shenzhen, Guangdong	State/Country:	CHINA	Postal Code:	518129		
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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>13335999</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13335999										
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CORRESPONDENCE DATA															
Fax Number:	(972)732-9218														
Phone:	(972)732-1001														
Email:	docketing@slater-matsil.com														
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.															
Correspondent Name:	Slater & Matsil, L.L.P.														
Address Line 1:	17950 Preston Road														
Address Line 2:	Suite 1000														
Address Line 4:	Dallas, TEXAS 75252														

CH \$40.00 13335999

ATTORNEY DOCKET NUMBER:	HW 0911833US
NAME OF SUBMITTER:	Nancy Milinkovich
<p><b>Total Attachments: 18</b></p> <p>source=HW0911833US_SignedAssignment#page1.tif source=HW0911833US_SignedAssignment#page2.tif source=HW0911833US_SignedAssignment#page3.tif source=HW0911833US_SignedAssignment#page4.tif source=HW0911833US_SignedAssignment#page5.tif source=HW0911833US_SignedAssignment#page6.tif source=HW0911833US_SignedAssignment#page7.tif source=HW0911833US_SignedAssignment#page8.tif source=HW0911833US_SignedAssignment#page9.tif source=HW0911833US_SignedAssignment#page10.tif source=HW0911833US_SignedAssignment#page11.tif source=HW0911833US_SignedAssignment#page12.tif source=HW0911833US_SignedAssignment#page13.tif source=HW0911833US_SignedAssignment#page14.tif source=HW0911833US_SignedAssignment#page15.tif source=HW0911833US_SignedAssignment#page16.tif source=HW0911833US_SignedAssignment#page17.tif source=HW0911833US_SignedAssignment#page18.tif</p>	

PATENT

Attorney Docket No.  
Client Reference No. 0911833US

ASSIGNMENT

WHEREAS, WE,

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

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

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

Bingyu QU  
America-Chicago-3601  
Algonquin Road, Suite 1000  
Rolling Meadows, 60008; and

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

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

have invented and own a certain invention entitled:

**METHOD, SYSTEM, AND DEVICE FOR IMPLEMENTING  
TRANSMISSION OF BACKHAUL LINK CONTROL CHANNEL IN  
RELAY SYSTEM**

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.

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REEL: 027491 FRAME: 0003

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Attorney Docket No. \_\_\_\_\_

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

Date December 14, 2011 Wei Bai  
Wei BAI

Date December 14, 2011 Zheng Yu  
Witness

Date December 16, 2011 Xiaobo CHEN  
Witness

Date \_\_\_\_\_  
Bingyu QU

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

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

Date \_\_\_\_\_  
Sha MA

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

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

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\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Wei JIN

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Yang LI

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

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Wei ZHANG

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Date ..... Wei BAI

Date ..... Witness

Date ..... Witness

Date Dec 14 2011 Bingyu QU

Date Dec 14 2011 Witness

Date Dec 14 2011 Witness Qian Cheng

Date ..... Sha MA

Date ..... Witness

Date ..... Witness

In re Appln. of Bai et al.  
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\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Wei JIN

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Yang LI

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Wei ZHANG

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

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Date \_\_\_\_\_

\_\_\_\_\_  
Witness



PATENT

Attorney Docket No.  
Client Reference No. 0911833US

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REEL: 027491 FRAME: 0009

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

\_\_\_\_\_  
Date \_\_\_\_\_ Bingyu QU \_\_\_\_\_

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

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

\_\_\_\_\_  
Date December 20, 2011 Sha MA \_\_\_\_\_  
Sha MA

Date December 20, 2011 Ciwen LOIS \_\_\_\_\_  
Witness

Date December 20, 2011 Shuang Lin \_\_\_\_\_  
Witness

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\_\_\_\_\_  
Date \_\_\_\_\_

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Wei JIN

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\_\_\_\_\_  
Witness

\_\_\_\_\_  
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\_\_\_\_\_  
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Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Wei ZHANG

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
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\_\_\_\_\_  
Witness

**PATENT**

Attorney Docket No. \_\_\_\_\_  
Client Reference No. 0911833US

**ASSIGNMENT**

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Wei BAI  
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Shenzhen, 518129, Guangdong  
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**REEL: 027491 FRAME: 0012**

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Sha MA

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

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

In re Appln. of Bai et al.  
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Date Dec 19 2011

Wei JIN  
\_\_\_\_\_  
Wei JIN

Date Dec 19, 2011

LIWEN LONG  
\_\_\_\_\_  
LIWEN LONG

Date Dec 19, 2011

Witness  
Shuang Lin  
\_\_\_\_\_  
Witness

Date \_\_\_\_\_

\_\_\_\_\_  
Yang LI

Date \_\_\_\_\_

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\_\_\_\_\_  
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Attorney Docket No. \_\_\_\_\_

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

Date \_\_\_\_\_  
Wei BAI

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

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

\_\_\_\_\_  
Date \_\_\_\_\_  
Bingyu QU

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

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

\_\_\_\_\_  
Date \_\_\_\_\_  
Sha MA

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

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



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

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Wei JIN

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date December 19, 2011

\_\_\_\_\_  
Tang Li

\_\_\_\_\_  
Date December 19, 2011

\_\_\_\_\_  
Yang Li

Tang Huijun

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date December 19, 2011

Fan Dongyang

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Wei ZHANG

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

PATENT

Attorney Docket No.  
Client Reference No. 0911833US

ASSIGNMENT

WHEREAS, WE,

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

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

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

Bingyu QU  
America-Chicago-3601  
Algonquin Road, Suite 1000  
Rolling Meadows, 60008; and

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

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

have invented and own a certain invention entitled:

**METHOD, SYSTEM, AND DEVICE FOR IMPLEMENTING  
TRANSMISSION OF BACKHAUL LINK CONTROL CHANNEL IN  
RELAY SYSTEM**

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.

PATENT

REEL: 027491 FRAME: 0018

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

**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 understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

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Date \_\_\_\_\_

Wei BAI

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Bingyu QU

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Sha MA

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Witness

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

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Wei JIN

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Yang LI

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Date December 16, 2011

\_\_\_\_\_  
Wei ZHANG

\_\_\_\_\_  
Date December 16, 2011

\_\_\_\_\_  
Wei ZHANG

\_\_\_\_\_  
Zhe Zhang  
Witness

\_\_\_\_\_  
Date December 16, 2011

\_\_\_\_\_  
Liu Yun  
Witness