

## 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>Li ZENG</td> <td>06/12/2012</td> </tr> <tr> <td>Lei LIU</td> <td>06/15/2012</td> </tr> <tr> <td>Chao LU</td> <td>06/12/2012</td> </tr> <tr> <td>Yanfu YANG</td> <td>06/13/2012</td> </tr> <tr> <td>Linghao CHENG</td> <td>06/13/2012</td> </tr> <tr> <td>Zhaohui LI</td> <td>06/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Li ZENG	06/12/2012	Lei LIU	06/15/2012	Chao LU	06/12/2012	Yanfu YANG	06/13/2012	Linghao CHENG	06/13/2012	Zhaohui LI	06/14/2012
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Li ZENG	06/12/2012														
Lei LIU	06/15/2012														
Chao LU	06/12/2012														
Yanfu YANG	06/13/2012														
Linghao CHENG	06/13/2012														
Zhaohui LI	06/14/2012														
RECEIVING PARTY DATA															
Name:	HUAWEI TECHNOLOGIES CO., LTD.														
Street Address:	Huawei Administration Building, Bantian, Longgang District														
City:	Shenzhen, Guangdong, P.R.														
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>13545637</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13545637										
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Application Number:	13545637														
CORRESPONDENCE DATA															
Fax Number:	(202)408-4400														
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Email:	will.chen@finnegan.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:	Huawei Technologies Co., Ltd./Finnegan														
Address Line 1:	901 New York Avenue														
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Address Line 4:	Washington, DISTRICT OF COLUMBIA 20001														
ATTORNEY DOCKET NUMBER:	11005.0696														

OP \$40.00 13545637

NAME OF SUBMITTER:

R. CREMEANS

**Total Attachments: 18**

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**ASSIGNMENT**

**WHEREAS, WE,**

**Li ZENG**  
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; and

**Chao LU**  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA; and

**Yanfu YANG**  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA; and

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

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

have invented and own a certain invention entitled:  
**METHOD AND APPARATUS FOR IMPLEMENTING PDM-BPSK MODULATION AND  
QPSK MODULATION IN COMPATIBLE MANNER**  
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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 June 12, 2012

Zeng Li  
Li ZENG

Date June 12, 2012

Chen Xi  
Witness

Date June 12, 2012

Gao Lei  
Witness

Date \_\_\_\_\_

Lei LIU

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Chao LV

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Witness

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\_\_\_\_\_  
Date \_\_\_\_\_  
Yanfu YANG

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

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

\_\_\_\_\_  
Date \_\_\_\_\_  
Linghao CHENG

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

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

\_\_\_\_\_  
Date \_\_\_\_\_  
Zhaohui LI

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Date \_\_\_\_\_

Li ZENG

Date \_\_\_\_\_

Witness \_\_\_\_\_

Date \_\_\_\_\_

Witness \_\_\_\_\_

Date June 15, 2012

Lei LIU

Lei LIU

Date June 15, 2012

Ling LIU

Witness

Date June 15, 2012

Yangsheng DAI

Witness

Date \_\_\_\_\_

Chao LV

Date \_\_\_\_\_

Witness \_\_\_\_\_

Date \_\_\_\_\_

Witness \_\_\_\_\_

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=====  
Date \_\_\_\_\_  
Yanfu YANG

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

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

=====  
Date \_\_\_\_\_  
Linghao CHENG

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

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

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Date \_\_\_\_\_  
Zhaohui LI

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

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



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Date \_\_\_\_\_  
LI ZENG

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

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

Date \_\_\_\_\_  
Lei LIU

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

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

Date 12 June, 2012  
Chao LU

Date 12 June 2012  
Alan Pak Tao Lau  
Witness

Date 12 June 2012  
YU Kuanglu  
Witness

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

\_\_\_\_\_  
Date \_\_\_\_\_  
Yanfu YANG

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

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

\_\_\_\_\_  
Date \_\_\_\_\_  
Linghao CHENG

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

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

\_\_\_\_\_  
Date \_\_\_\_\_  
Zhaohui LI

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

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

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

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Date June 13, 2012

Yanfu YANG

Date June 13, 2012

Yanfu YANG

Bing Yang YAN  
Witness

Date June 13, 2012

Jiechang ZHONG  
Witness

Date \_\_\_\_\_

Linghao CHENG

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Zhaohui LI

Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

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Date \_\_\_\_\_

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Date \_\_\_\_\_

Witness

Date \_\_\_\_\_

Witness

Date June 13, 2012

Linghao Cheng

Linghao CHENG

Date June 13, 2012

Jie Li

Witness

Date June 13, 2012

Hao Liang

Witness

Date \_\_\_\_\_

Zhaohui LI

Date \_\_\_\_\_

Witness

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P.R. CHINA;

have invented and own a certain invention entitled:  
**METHOD AND APPARATUS FOR IMPLEMENTING PDM-BPSK MODULATION AND QPSK MODULATION IN COMPATIBLE MANNER**  
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.

In re Appln. of Zeng 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.

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

Date \_\_\_\_\_  
\_\_\_\_\_ **Li ZENG**

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

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

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Date \_\_\_\_\_  
\_\_\_\_\_ **Lei LIU**

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

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

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Date \_\_\_\_\_  
\_\_\_\_\_ **Chao LU**

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

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

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

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Date \_\_\_\_\_ Yanfu YANG  
Date \_\_\_\_\_  
Witness \_\_\_\_\_  
Date \_\_\_\_\_  
Witness \_\_\_\_\_

=====  
Date \_\_\_\_\_ Linghao CHENG  
Date \_\_\_\_\_  
Witness \_\_\_\_\_  
Date \_\_\_\_\_  
Witness \_\_\_\_\_

=====  
Date June 14, 2012 Li Zhaohui  
Zhaohui LI  
Date June 14, 2012 Lin Xiaogang  
Witness \_\_\_\_\_  
Date June 14, 2012 Li Hongjun  
Witness \_\_\_\_\_