

PATENT ASSIGNMENT COVER SHEET

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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>HEPING ZHANG</td> <td>12/09/2013</td> </tr> <tr> <td>ZHENGHAO LI</td> <td>12/09/2013</td> </tr> <tr> <td>ZHONGYING LONG</td> <td>12/09/2013</td> </tr> <tr> <td>DINGJIE WANG</td> <td>12/09/2013</td> </tr> <tr> <td>ZHAOLIANG YANG</td> <td>12/12/2013</td> </tr> <tr> <td>DONGXING TU</td> <td>12/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	HEPING ZHANG	12/09/2013	ZHENGHAO LI	12/09/2013	ZHONGYING LONG	12/09/2013	DINGJIE WANG	12/09/2013	ZHAOLIANG YANG	12/12/2013	DONGXING TU	12/09/2013
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<table border="1"> <tr> <td>Name:</td> <td>HUAWEI DEVICE CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>Building B2, Huawei Industrial Base</td> </tr> <tr> <td>Internal Address:</td> <td>Bantian, Longgang District</td> </tr> <tr> <td>City:</td> <td>Shenzhen</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>518129</td> </tr> </table>		Name:	HUAWEI DEVICE CO., LTD.	Street Address:	Building B2, Huawei Industrial Base	Internal Address:	Bantian, Longgang District	City:	Shenzhen	State/Country:	CHINA	Postal Code:	518129		
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PROPERTY NUMBERS Total: 1															
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Application Number:	14145331														
CORRESPONDENCE DATA															
Fax Number:	(972)731-2289														
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>															
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ATTORNEY DOCKET NUMBER:	4437-08800 (83232928US05)														

NAME OF SUBMITTER:	NICHOLAS K. BEAULIEU
Signature:	/Nicholas K. Beaulieu/
Date:	02/04/2014
Total Attachments: 4 source=4437-08800_Signed_Assignment#page1.tif source=4437-08800_Signed_Assignment#page2.tif source=4437-08800_Signed_Assignment#page3.tif source=4437-08800_Signed_Assignment#page4.tif	

ASSIGNMENT

WHEREAS, WE,

Heping ZHANG
BuildingB2, Huawei Industrial
Base Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;and

Zhenghao LI
BuildingB2,HuaweiIndustrialBase
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;and

Zhongying LONG
BuildingB2, Huawei Industrial Base
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;and

Dingjie WANG
BuildingB2, Huawei Industrial
Base Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;and

Zhaoliang YANG
BuildingB2, Huawei Industrial Base
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;and

Dongxing TU
BuildingB2, Huawei Industrial
Base Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.;

have invented and own a certain invention entitled:
METHOD AND APPARATUS FOR IMPROVING COMMUNICATION RATE
for which invention we have executed an application (provisional or non-provisional) for a U.S.
patent, which was filed on December 31, 2013, under U.S. Application No. 14/145,331, and

WHEREAS, HUAWEI DEVICE CO., LTD., of BuildingB2, Huawei Industrial Base,
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 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. 9, 2013 Heping ZHANG
Heping ZHANG

Date Dec. 9, 2013 Chun hua ZHANG
Witness

Date Dec. 9, 2013 Yundi YAO
Witness

=====
Date Dec. 9, 2013 Zhenghao LI
Zhenghao LI

Date Dec. 9, 2013 Shuhui SUN
Witness

Date Dec. 9, 2013 Qing LIU
Witness

=====
Date Dec. 9, 2013 Zhongying LONG
Zhongying LONG

Date Dec. 9, 2013 BIAN Xin
Witness

Date Dec. 9, 2013 Caiwen ZHANG
Witness

Date Dec. 9, 2013

Dingjie WANG

Dingjie WANG

Date Dec. 9, 2013

Guangcheng PAN

Witness

Date Dec. 9, 2013

Yao LAN

Witness

Date _____

Zhaoliang YANG

Date _____

Witness

Date _____

Witness

Date Dec. 9, 2013

Dongxing TU

Dongxing TU

Date Dec. 9, 2013

Jiangbo GU

Witness

Date Dec. 9, 2013

Yi FAN

Witness

Date _____ Dingjie WANG

Date _____ Witness

Date _____ Witness

Date December 12, 2013 Zhaoliang YANG
Zhaoliang YANG

Date December 12, 2013 Wei hong PENG
Witness

Date December 12, 2013 Chenli LUO
Witness

Date _____ Dongxing TU

Date _____ Witness

Date _____ Witness