

## 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>Hua Xu</td> <td>03/03/2013</td> </tr> <tr> <td>Shiwei Gao</td> <td>02/26/2013</td> </tr> <tr> <td>Chandra Sekhar Bontu</td> <td>03/01/2013</td> </tr> </tbody> </table>		Name	Execution Date	Hua Xu	03/03/2013	Shiwei Gao	02/26/2013	Chandra Sekhar Bontu	03/01/2013		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Research In Motion Limited</td> </tr> <tr> <td>Street Address:</td> <td>295 Phillip Street</td> </tr> <tr> <td>City:</td> <td>Waterloo, ON</td> </tr> <tr> <td>State/Country:</td> <td>CANADA</td> </tr> <tr> <td>Postal Code:</td> <td>N2L 3W8</td> </tr> </table>		Name:	Research In Motion Limited	Street Address:	295 Phillip Street	City:	Waterloo, ON	State/Country:	CANADA	Postal Code:	N2L 3W8
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CORRESPONDENCE DATA											
<p>Fax Number: 9727312289  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 972-731-2288        Email: rlaw@dfw.conleyrose.com        Correspondent Name: J. Robert Brown, Jr.        Address Line 1: 5601 Granite Parkway, Suite 750        Address Line 4: Plano, TEXAS 75024</p>											
ATTORNEY DOCKET NUMBER:	46746-1-US-PAT 4214-40300										
NAME OF SUBMITTER:	J. Robert Brown, Jr.										
Signature:	/J. Robert Brown, Jr./										

Date:

04/08/2013

**Total Attachments: 5**

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**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)");

**Hua XU, 4000 Innovation Drive, Ext. 13712, Kanata, Ontario, K2K 3K1, Canada**

**Shiwei GAO, 4000 Innovation Drive, Ext. 12355, Kanata, Ontario, Canada, K2K 3K1**

**Chandra Sekhar BONTU, 4000 Innovation Drive, Ext. 13756, Kanata, Ontario, Canada, K2K 3K1**

am an/are inventor(s) of an invention entitled **DESIGN FOR SMALL CELL DEMODULATION REFERENCE SIGNAL AND INITIAL SYNCHRONIZATION** ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

**US, Application # 13/767,682 filed February 14, 2013**

**PCT, Application # PCT/US2013/26201 filed February 14, 2013**

AND WHEREAS, **RESEARCH IN MOTION LIMITED**, (hereinafter referred to as the "ASSIGNEE"), a company organized under the laws of the Province of Ontario, Canada, having a place of business at 295 Phillip Street, Waterloo, Ontario, N2L 3W8, Canada, is desirous of acquiring the full and exclusive right, title and interest in and to said Invention, said Applications inclusive of all ancillary rights relating thereto, any and all priority rights derived from said Applications, and all patents, design registrations, utility model registrations and other forms of protection, rights and titles relating to said Invention, in any country or countries and in respect of the whole or any part or parts of or improvements to the Invention;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; inclusive of any and all priority rights, including the right to claim priority, derived from the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications.... ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions");

together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

ASSIGNOR(S) does/do hereby agree, upon request, to provide assistance and to execute any and all further documents, at the expense of ASSIGNEE and/or its successors and assigns (as applicable), which may be necessary or desirable to enable ASSIGNEE, and/or its successors and assigns (as applicable), to file, prosecute, bring proceedings and take other actions with respect to any and all of the Invention, Applications, Further Applications, Divisionals, Grants and Extensions, and any and all patents and registrations granted thereon and other forms of protection, rights and titles relating thereto, and ASSIGNOR(S) further agrees/agree to execute, upon request and at the expense of ASSIGNEE and/or its successors and assigns (as applicable), any and all further documents which may be necessary or desirable to vest or perfect the title of ASSIGNEE therein.

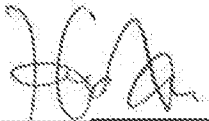
ASSIGNOR(S) does/do hereby authorize ASSIGNEE or its patent agents or attorneys to insert, above, the jurisdictions, application numbers, filing dates and any other indicia identifying the Applications when such information is available for the purpose of recording this assignment.

ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNOR(S) and their successors and permitted assigns.

DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Worldwide Assignment may be executed in one or more counterparts, each of which when so executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

  
\_\_\_\_\_  
Hua XU  
4000 Innovation Drive, Ext. 13712,  
Kanata, Ontario, K2K 3K1, Canada

Date: March 3, 2013

STATEMENT BY WITNESS

I, YAN XEN, whose full Post Office address is

4000 Innovation Drive, Kanata, Ontario, K2K 3K1 Canada  
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

  
\_\_\_\_\_  
(Signature of Witness)

Date: March 2, 2013

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:



Shiwei GAO  
4000 Innovation Drive, Ext. 12355,  
Kanata, Ontario, Canada, K2K 3K1

Date: Feb. 26, 2013

STATEMENT BY WITNESS

I, YAN XIN, whose full Post Office address is

4000 Innovation Drive, Kanata, Ontario, Canada K2K 3K1  
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

  
(Signature of Witness)

Date: Feb. 26, 2013

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Chandra  
Chandra Sekhar BONTU  
4000 Innovation Drive, Ext. 13756,  
Kanata, Ontario, Canada, K2K 3K1

Date: MARCH 01, 2013

STATEMENT BY WITNESS

I, YAN XIN, whose full Post Office address is

4000 Innovation Drive, Kanata, Ontario, Canada K2K 3K1  
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

Yan Xin  
(Signature of Witness)

Date: March 1, 2013