

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>Zhijun Cai</td> <td>05/19/2010</td> </tr> <tr> <td>James Earl Womack</td> <td>05/24/2010</td> </tr> <tr> <td>Yi Yu</td> <td>05/19/2010</td> </tr> </tbody> </table>		Name	Execution Date	Zhijun Cai	05/19/2010	James Earl Womack	05/24/2010	Yi Yu	05/19/2010		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Research In Motion Corporation</td> </tr> <tr> <td>Street Address:</td> <td>1209 Orange Street</td> </tr> <tr> <td>City:</td> <td>Wilmington</td> </tr> <tr> <td>State/Country:</td> <td>DELAWARE</td> </tr> <tr> <td>Postal Code:</td> <td>19801</td> </tr> </table>		Name:	Research In Motion Corporation	Street Address:	1209 Orange Street	City:	Wilmington	State/Country:	DELAWARE	Postal Code:	19801
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number: 9727312289 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 972-731-2288 Email: rlaw@dfw.conleyrose.com Correspondent Name: J. Robert Brown, Jr. Address Line 1: 5601 Granite Parkway, Suite 500 Address Line 4: Plano, TEXAS 75024											
ATTORNEY DOCKET NUMBER:	35140-US-CNT (4214-17006)										
NAME OF SUBMITTER:	J. Robert Brown, Jr.										
Signature:	/J. Robert Brown, Jr./										
Date:	07/08/2013										

CH \$40.00 13905916

Total Attachments: 5

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WORLDWIDE ASSIGNMENT

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

**CAI, Zhijun, 63775 - Building 6, Brazos East, Suite 100, 5000 Riverside Drive,
Irving, TX 75039**

**WOMACK, James Earl, 63770 - Building 6, Brazos East, Suite 100, 5000 Riverside
Drive, Irving, TX 75039**

**YU, Yi, 63942 - Building 6, Brazos East, Suite 100, 5000 Riverside Drive, Irving, TX
75039**

has/have invented a **MULTICAST/BROADCAST SINGLE FREQUENCY NETWORK
SUBFRAME PHYSICAL DOWNLINK CONTROL CHANNEL DESIGN** ("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 No. 12/762,142, Filing Date: 04/16/2010

WO, Application No. PCT/US2010/031477, Filing Date: 04/16/2010

AND WHEREAS, **RESEARCH IN MOTION CORPORATION**, (hereinafter referred
to as the "ASSIGNEE"), a company organized under the laws of the State of Delaware, U.S.A.,
having a place of business at The Corporation Trust Center, 1209 Orange Street, Wilmington,
Delaware, 19801, U.S.A., 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; 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.

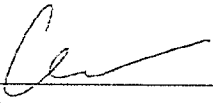
ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

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:

Date: May 19/2010



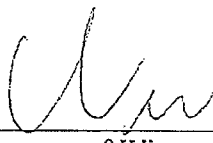
CAI, Zhijun
63775 - Building 6, Brazos East, Suite 100
5000 Riverside Drive
Irving, TX 75039

STATEMENT BY WITNESS

I, Wei Wu, whose full Post Office address is
5000 Riverside Dr, Irving, TX 75019
(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.

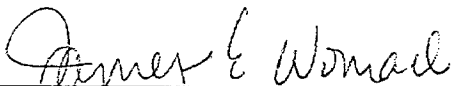
Date: 5/19/2010



(Signature of Witness)

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

Date: 5/24/10


WOMACK, James Earl
63770 - Building 6, Brazos East, Suite 100
5000 Riverside Drive
Irving, TX 75039

STATEMENT BY WITNESS

I, Wei Wu, whose full Post Office address is

5000 Riverside Dr, Irving, TX 75039
(Address of Witness)

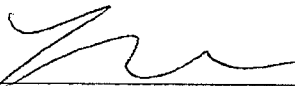
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

Date: 5/24/10


(Signature of Witness)

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

Date: 05/19/2010



YU, Yi
63942 - Building 6, Brazos East, Suite 100
5000 Riverside Drive
Irving, TX 75039

STATEMENT BY WITNESS

I, Wei Wu, whose full Post Office address is

5000 Riverside Dr. Irving, TX 75039
(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.

Date: 5/19/10



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