

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>Jianfeng Weng</td> <td>08/12/2011</td> </tr> <tr> <td>Shiguang Guo</td> <td>08/15/2011</td> </tr> <tr> <td>Shiwei Gao</td> <td>08/12/2011</td> </tr> <tr> <td>Mo-Han Fong</td> <td>08/14/2011</td> </tr> <tr> <td>Youn Hyoung Heo</td> <td>10/18/2012</td> </tr> <tr> <td>Andrew Mark Earnshaw</td> <td>08/16/2011</td> </tr> </tbody> </table>		Name	Execution Date	Jianfeng Weng	08/12/2011	Shiguang Guo	08/15/2011	Shiwei Gao	08/12/2011	Mo-Han Fong	08/14/2011	Youn Hyoung Heo	10/18/2012	Andrew Mark Earnshaw	08/16/2011
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Youn Hyoung Heo	10/18/2012														
Andrew Mark Earnshaw	08/16/2011														
RECEIVING PARTY DATA															
Name:	RESEARCH IN MOTION LIMITED														
Street Address:	295 Phillip Street														
City:	Waterloo, Ontario														
State/Country:	CANADA														
Postal Code:	N2L 3W8														
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>13458591</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13458591										
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Application Number:	13458591														
CORRESPONDENCE DATA															
Fax Number:	8777697945														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Email:	apsi@fr.com														
Correspondent Name:	Fish & Richardson P.C.														
Address Line 1:	P.O. Box 1022														
Address Line 4:	Minneapolis, MINNESOTA 55440														
ATTORNEY DOCKET NUMBER:	31234-0028001														
NAME OF SUBMITTER:	Christie Loven														

Signature:	/Christie Loven/
Date:	05/09/2013
<p>Total Attachments: 24</p> <p>source=31234-0028001_Assignment#page1.tif source=31234-0028001_Assignment#page2.tif source=31234-0028001_Assignment#page3.tif source=31234-0028001_Assignment#page4.tif source=31234-0028001_Assignment#page5.tif source=31234-0028001_Assignment#page6.tif source=31234-0028001_Assignment#page7.tif source=31234-0028001_Assignment#page8.tif source=31234-0028001_Assignment#page9.tif source=31234-0028001_Assignment#page10.tif source=31234-0028001_Assignment#page11.tif source=31234-0028001_Assignment#page12.tif source=31234-0028001_Assignment#page13.tif source=31234-0028001_Assignment#page14.tif source=31234-0028001_Assignment#page15.tif source=31234-0028001_Assignment#page16.tif source=31234-0028001_Assignment#page17.tif source=31234-0028001_Assignment#page18.tif source=31234-0028001_Assignment#page19.tif source=31234-0028001_Assignment#page20.tif source=31234-0028001_Assignment#page21.tif source=31234-0028001_Assignment#page22.tif source=31234-0028001_Assignment#page23.tif source=31234-0028001_Assignment#page24.tif</p>	

WORLDWIDE ASSIGNMENT

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

WENG, Jianfeng, 4000 Innovation Drive, Ext. 13508, Kanata, Ontario, K2K 3K1, Canada

GUO, Shiguang, 8 Cheltonia Way, Kanata, Ontario, K2T 1G1, Canada

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

FONG, Mo-Han, 95 Beech Street, Apt. 205, Ottawa, Ontario, K1S 3J7, Canada

HEO, Youn Hyoung, 295 Phillip Street, Ext. 78357, Waterloo, Ontario, N2L 3W8, Canada

EARNSHAW, Andrew Mark, 4000 Innovation Drive, Ext. 13208, Kanata, Ontario, K2K 3K1, Canada

am an/are inventor(s) of an invention entitled **METHOD AND SYSTEM FOR RANDOM ACCESS INTERFERENCE MITIGATION IN HETEROGENEOUS CELLULAR NETWORKS** ("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. 61/521,929 filed August 10, 2011

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; 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:


WENG, Jianfeng,
4000 Innovation Drive, Ext. 13508,
Kanata, Ontario,
K2K 3K1, Canada

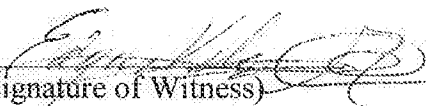
Date: Aug 12, 2011

STATEMENT BY WITNESS

I, EDGAR VELEZ, whose full Post Office address is

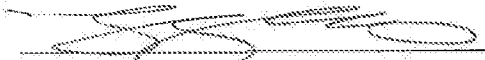
140 OLD COLONY ROAD, KANATA, ON K2L 1M4
(Address of Witness)

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: Aug 12, 2011

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


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

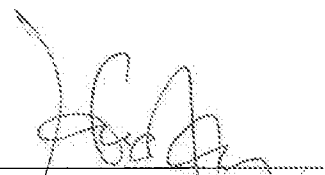
Date: Aug. 12, 2011

STATEMENT BY WITNESS

I, HUA XU, whose full Post Office address is

450 March Rd, Kanata, Ontario
(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: Aug 12, 2011

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

Shiguang Guo

Date: Aug 15, 2011

GUO, Shiguang,
8 Cheltonia Way,
Kanata, Ontario,
K2T 1G1, Canada

STATEMENT BY WITNESS

I, Chunyan Wang, whose full Post Office address is

8 Cheltonia Way, Kanata, K2T 1G1, 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.

Wangchunyan
(Signature of Witness)

Date: Aug 15, 2011

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

.....
FONG, Mo-Han,
95 Beech Street, Apt. 205,
Ottawa, Ontario,
K1S 3J7, Canada

Date:

STATEMENT BY WITNESS

I,, whose full Post Office address is

.....
(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:

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

.....
HEO, Youn Hyung,
295 Phillip Street, Ext. 78357,
Waterloo, Ontario,
N2L 3W8, Canada

Date:

STATEMENT BY WITNESS

I,, whose full Post Office address is


.....
(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:

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


EARNSHAW, Andrew Mark,
4000 Innovation Drive, Ext. 13208,
Kanata, Ontario,
K2K 3K1, Canada

Date: August 16/2011

STATEMENT BY WITNESS

I, EDGAR F. VELEZ, whose full Post Office address is

140 Old Colony Rd, Kanata, ON K2L1M4
(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: August 16, 2011

WORLDWIDE ASSIGNMENT

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

WENG, Jianfeng, 4000 Innovation Drive, Ext. 13508, Kanata, Ontario, K2K 3K1, Canada

GUO, Shiguang, 8 Cheltonia Way, Kanata, Ontario, K2T 1G1, Canada

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

FONG, Mo-Han, 95 Beech Street, Apt. 205, Ottawa, Ontario, K1S 3J7, Canada

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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

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

.....
WENG, Jianfeng,
4000 Innovation Drive, Ext. 13508,
Kanata, Ontario,
K2K 3K1, Canada

Date:

STATEMENT BY WITNESS

I,, whose full Post Office address is

.....
(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:

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

.....
GUO, Shiguang,
8 Cheltonia Way,
Kanata, Ontario,
K2T 1G1, Canada

Date:

STATEMENT BY WITNESS

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(Address of Witness)

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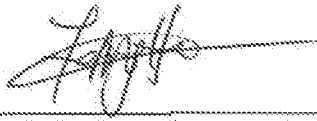
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(Address of Witness)

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.....
(Signature of Witness)

Date:

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



Date: Aug 14, 2011


**FONG, Mo-Han,
95 Beech Street, Apt. 205,
Ottawa, Ontario,
K1S 3J7, Canada**

STATEMENT BY WITNESS

I, BRENDA HILLIS, whose full Post Office address is

4-121 DALY AVE, OTTAWA, ON K1N 6E6
(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: Aug 14, 2011

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

..... Date:

HEO, Youn Hyoung,
295 Phillip Street, Ext. 78357,
Waterloo, Ontario,
N2L 3W8, Canada

STATEMENT BY WITNESS

I,, whose full Post Office address is

.....
(Address of Witness)

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..... Date:

(Signature of Witness)

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

**EARNSHAW, Andrew Mark,
4000 Innovation Drive, Ext. 13208,
Kanata, Ontario,
K2K 3K1, Canada**

Date: _____

STATEMENT BY WITNESS

I, _____, whose full Post Office address is

(Address of Witness)

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Date: _____

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HEO, Youn Hyoung, 945-303, Pureunmaeul Moamiredo APT, Neung-dong, Hwasung-si, Gyeonggi-do, Republic of Korea, 445-787

EARNSHAW, Andrew Mark, 4000 Innovation Drive, Ext. 13208, Kanata, Ontario, K2K 3K1, Canada

am an/are inventor(s) of an invention entitled **METHOD AND SYSTEM FOR RANDOM ACCESS INTERFERENCE MITIGATION IN HETEROGENEOUS CELLULAR NETWORKS** ("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 #61/521929, FILING DATE: 2011-08-10

US, APPLICATION #13/458591, FILING DATE: 2012-04-27

US, APPLICATION #PCT/CA2012/000706, FILING DATE: 2012-07-27

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;

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

.....
WENG, Jianfeng,
4000 Innovation Drive, Ext. 13508,
Kanata, Ontario,
K2K 3K1, Canada

Date:

STATEMENT BY WITNESS

I,, whose full Post Office address is

.....
(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:

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

.....
**GUO, Shiguang,
8 Cheltonia Way,
Kanata, Ontario,
K2T 1G1, Canada**

Date:

STATEMENT BY WITNESS

I,, whose full Post Office address is

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(Address of Witness)

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.....
(Signature of Witness)

Date:

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K2K 3K1, Canada

Date: _____

STATEMENT BY WITNESS

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Date: _____

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

.....
FONG, Mo-Han,
95 Beech Street, Apt. 205,
Ottawa, Ontario,
K1S 3J7, Canada

Date:

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I,, whose full Post Office address is

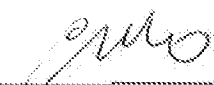
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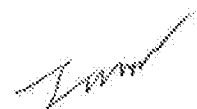
Date: OCTOBER 18, 2012

STATEMENT BY WITNESS

I, ZINSUPARK, whose full Post Office address is

94T-303, Puroonaeul Moamirido APT, Neung-dong, Mwasung-si
(Address of Witness) Gyeonggi-do, KOREA

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: OCTOBER 18, 2012

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

EARNSHAW, Andrew Mark,
4000 Innovation Drive, Ext. 13208,
Kanata, Ontario,
K2K 3K1, Canada

Date: _____

STATEMENT BY WITNESS

I, _____, whose full Post Office address is

(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: _____