

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2979491

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MO-HAN FONG	12/10/2010
MARK EARNSHAW	01/04/2011
YOUN HYOUNG HEO	01/10/2011
HUA XU	12/13/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RESEARCH IN MOTION LIMITED
<b>Street Address:</b>	295 PHILLIP STREET
<b>City:</b>	WATERLOO, ONTARIO
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	N2L 3W8
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14280365
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	FISH & RICHARDSON P.C.
<b>Address Line 1:</b>	P.O. BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440
<b>ATTORNEY DOCKET NUMBER:</b>	29717-0032002
<b>NAME OF SUBMITTER:</b>	CHRISTIE LOVEN
<b>SIGNATURE:</b>	/Christie Loven/
<b>DATE SIGNED:</b>	08/13/2014
<b>Total Attachments: 6</b>	
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**WORLDWIDE ASSIGNMENT**

WHEREAS, WE, (hereinafter referred to as the "ASSIGNORS"):

**Mo-Han Fong - 13750 - 4000 Innovation Drive, Kanata, ON CA K2K 3K1**

**Mark Earnshaw - 13208 - 4000 Innovation Dr., Kanata, ON, K2K 3K1, CA**

**Youn Hyoungh Heo - 78357-176 Columbia Street West, Waterloo, ON N2L 3L3, Canada**

**Hua Xu - 13712 - 4000 Innovation Drive, Kanata, Ontario, CA K2K 3K1**

have invented a **SYSTEM AND METHOD FOR MULTI-CARRIER NETWORK OPERATION** ("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:

**USA, Application No. 61/246,061, filed September 25, 2009**

**USA, Application No. 61/293,521, filed January 8, 2010**

**PCT, Application No. PCT/US10/50232, filed September 24, 2010**

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, ASSIGNORS do hereby confirm that ASSIGNORS have transferred, conveyed and assigned, and by way of further assurance do hereby transfer, convey and assign, any and all of ASSIGNORS' 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.

ASSIGNORS 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 ASSIGNORS further 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.

ASSIGNORS 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.

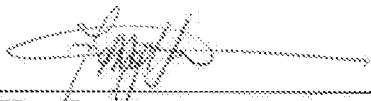
ASSIGNORS do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNORS 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: Dec 10, 2010

  
Mo-Han Fong  
13750 - 4000 Innovation Drive  
Kanata, ON CA K2K 3K1

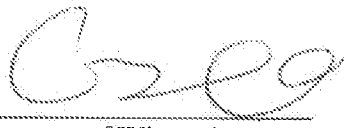
STATEMENT BY WITNESS

I, Shiguang Gao, whose full Post Office address is

4000 INNOVATION DRIVE, KANATA, ON CA 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.

Date: Dec 10, 2010

  
(Signature of Witness)

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

Date: Jan 4/2011

Mark Earnshaw  
Mark Earnshaw  
13208 - 450 March Road  
Kanata, ON, K2K 3K2, CA

STATEMENT BY WITNESS

I, Jianfeng WEN, whose full Post Office address is  
450 March Road, Kanata, ON, K2K 3K2  
(Address of Witness)

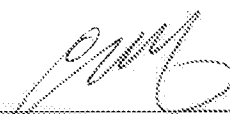
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

Date: Jan. 4, 2011

Jianfeng Wen  
(Signature of Witness)

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

Date: January 10, 2011

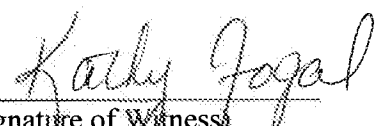
  
\_\_\_\_\_  
Youn Hyoung Heo  
78357-176 Columbia Street West  
Waterloo, ON N2L 3L3, Canada

STATEMENT BY WITNESS

I, Kathy Fogal, whose full Post Office address is  
176 Columbia StW Waterloo ON N2L 3L3  
(Address of Witness)

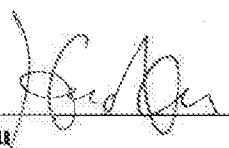
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

Date: Jan 10, 2011

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

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

Date: Dec 13, 2010

  
\_\_\_\_\_  
Hua Xu  
13712 / 4000 Innovation Drive  
Kanata, Ontario, CA K2K 3K1

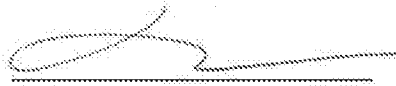
STATEMENT BY WITNESS

I, Hao Xu, whose full Post Office address is

4000 Innovation Drive, Kanata, Ontario, CA 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.

Date: Dec 13, 2010

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