# 503652181 01/15/2016

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3698815

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HUA XU	01/13/2012
YONGKANG JIA	01/13/2012
ANDREW MARK EARNSHAW	12/08/2011
MO-HAN FONG	08/14/2011
YOUN HYOUNG HEO	03/07/2012

#### 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**

Property Type	Number
Application Number:	14946371

### **CORRESPONDENCE DATA**

**Fax Number:** (877)769-7945

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.

Email: apsi@fr.com

Correspondent Name: FISH & RICHARDSON P.C.

Address Line 1: P.O. BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440

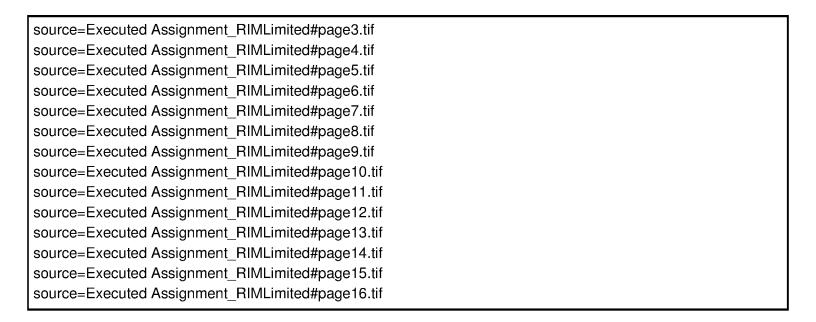
ATTORNEY DOCKET NUMBER:	31234-0263003
NAME OF SUBMITTER:	CHRISTIE LOVEN
SIGNATURE:	/Christie Loven/
DATE SIGNED:	01/15/2016

**Total Attachments: 16** 

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PATENT REEL: 037503 FRAME: 0568

503652181



PATENT REEL: 037503 FRAME: 0569

# WORLDWIDE ASSIGNMENT

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

XU, Hua, 4000 Innovation Drive, Ext. 13712, Kanata, Ontario, K2K 3K1, Canada; JIA, Yongkang, 4000 Innovation Drive, Ext. 12637, Kanata, Ontario, K2K 3K1, 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 SIGNALING TRANSMISSION LAYERS FOR SINGLE USER AND MULTI USER MIMO ("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 Patent Application No. 61/218,705 filed	June 19, 2009
PCT Application No. PCT/US2010/038487	filed June 14, 2010
US Patent Application No/,	_ filed June 14, 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, 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

Page 1 of 5

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 WHEREC	DF, this Worldwide A	Assignment has	been execut	ed below by the	ne
undersigned:		: : <del>**</del> :		:	
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	Date:	Jan 13,	CC 1 1		
XU, Hua					
1001 Farrar Road, Ext. 13712,	e E				
Ottawa, Ontario,					
K2K 0B3, Canada					
	STATEMENT BY	WITNESS			
	DIWITMITMITMI DI	WILINESS.			
N					
THE STAN KI	V	, whose t	full Post Of	fice address is	
		***************************************			
			i :		
410 March R	Gad, Ottowa	Untario,	KSK )	3 KZ Car	exant.
	(Address of W	itness)			`
hereby declare that I was persona	ally present and did s	see the above na	amed person	n, personally	
known to me to be a person nam-	ed in the Worldwide	Assignment, d	uly sign and	l execute same	<b>:</b> .
	e est				
		on the same of the			
Jan X		Date:		2012	
(Signature of Witness)			***************************************		

Page 3 of 5

IN WITNESS WHEREOF, this World	lwide Assign	ment has been	executed bel	ow by the
undersigned:				
		<b>3</b> :		
A mining	Arrent Control of the	Jan 13.	5 812	
The state of the s	Date:	Jan 7,		:
JIA, Yongkang				
4000 Innovation Drive, Ext. 12637,				
Kanata, Ontario,				
K2K 3K1, Canada				
		*		
\$ CED 49				
STA	TEMENT BY	WITNESS		
I, YAN XIN				oo and
1,		s whos	se full Post O	ffice address is
450 Warsh Road,	OHana	Ontario	1253K	e Canada
	(Address of V	Vitness)		·····
hereby declare that I was personally pr	esent and did	see the above	named perso	on, personally
known to me to be a person named in t	the Worldwid	le Assignment	, duly sign an	d execute same.
and the second second second				
		, a a a		2012
VanAn		Date:	a 17,	
(Signature of Witness)				

Page 4 of 5

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Date: EARNSHAW, Andrew Mark 4000 Innovation Drive, Ext. 13208, Kanata, Ontario, K2K 3K1, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
(Address of witness)
nereby 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: Signature of Witness)

Page 5 of 5

## **WORLDWIDE ASSIGNMENT**

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

XU, Hua, 4000 Innovation Drive, Ext. 13712, Kanata, Ontario, K2K 3K1, Canada; JIA, Yongkang, 4000 Innovation Drive, Ext. 12637, Kanata, Ontario, K2K 3K1, 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 SIGNALING TRANSMISSION LAYERS FOR SINGLE USER AND MULTI USER MIMO ("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 Patent Application No. 61/218,705 filed	June 19, 2009
PCT Application No. PCT/US2010/038487	filed June 14, 2010
US Patent Application No/,	_ filed June 14, 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, 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

Page 1 of 5

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 Assi andersigned:	ignment has been executed below by the
Date:	
KU, Hua 001 Farrar Road, Ext. 13712, Ottawa, Ontario, K2K 0B3, Canada	
STATEMENT BY WI	ITNESS
Ţ,	whose full Post Office address is
(Address of Witne	ess)
ereby declare that I was personally present and did see nown to me to be a person named in the Worldwide As	the above named person, personally ssignment, duly sign and execute same.
Date Signature of Witness)	e:

Page 3 of 5

IN WITN undersign	IESS WHEREOF, this Worldwide Assignment has been executed below by the ned:
RYA W/ow	Date:
Kanata,	ovation Drive, Ext. 12637,
	STATEMENT BY WITNESS
Ι, ,	whose full Post Office address is
	(Address of Witness)
hereby de known to	clare that I was personally present and did see the above named person, personally me to be a person named in the Worldwide Assignment, duly sign and execute same.
(Signature	e of Witness)

Page 4 of 5

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

Land Eunstour Date: December 8/2011 EARNSHAW, Andrew Mark

4000 Innovation Drive, Ext. 13208,

Kanata, Ontario. K2K 3K1, Canada

STATEMENT BY WITNESS

I, Jim feng WEWG, whose full Post Office address is

4000 Innovation Dr. Kanada ON, K3K 3K 1

(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.

(Sugnature of

Date: Dee. 8, 2011

RIM Family Ref. No.: 35732-WO-PCT

### WORLDWIDE ASSIGNMENT

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

MO-HAN FONG 95 BEECH ST., APT. 205, OTTAWA, ONTARIO, CANADA KIS 3J7

has/have invented a METHOD AND SYSTEM FOR SIGNALING TRANSMISSION LAYERS FOR SINGLE USER AND MULTI USER MIMO ("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:

# U.S. PROVISIONAL PATENT APPLICATION NO. 61/218,705, FILED 06/19/09 PCT PATENT APPLICATION NO. PCT/US10/038487, FILED 06/14/10

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

Page 1 of 3 V5.0

RIM Family Ref. No.: 35732-WO-PCT

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.

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RIM Family Ref. No.: 35732-WO-PCT

undersigned:	INESS WHERE	or, inis wondwide	Assignment has been executed below	≠oy m
Date: <u>Av</u>	14, 2011		FONG H ST., APT. 205 A, ONTARIO, CANADA KIS 3J7	
		STATEMENT B	Y WITNESS	
I,	BRENDA	HIUIS	, whose full Post Office addr	ess is
4-1	21 DALY A	IE OTTAWF (Address of V	9, ON KIN 6 Σ 6 Witness)	panel,
			d see the above named person, person de Assignment, duly sign and execute	
Date: Assign	14, 2011		(Signature of Witness)	

Page 3 of 3

V5.0

# WORLDWIDE ASSIGNMENT

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

HEO, Youn, 305 Phillip Street, Ext. 78359, Waterloo, Ontario, N2L 3W8, Canada

am an/are inventor(s) of an invention entitled METHOD AND SYSTEM FOR SIGNALING TRANSMISSION LAYERS FOR SINGLE USER AND MULTI USER MIMO ("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 Patent Application No. 61/	218,705 filed	June 19, 2009
PCT Application No. PCT/US	2010/038487	filed June 14, 2010
US Patent Application No.	/ ,	filed June 14, 2010

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NOW THEREPORE, 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.

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IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:					
HEO, Youn HYOUNG 305 Phillip Street, Ext. 78359, Waterloo, Ontario, N2L 3W8, Canada	Date: March 7, 20/2				
STATEMENT BY WITNESS					
i, TNSU PARK	, whose full Post Office address is				
945 <u>- 303 ; Parana masaul</u> (**	Moamiredo APT Nung-obng, Hwasung ddress of Wilness) Republic of 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.					

V6.0

(Signature of Witness)

**RECORDED: 01/15/2016** 

Date: March 7 20/2