

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5656808

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	RESEARCH IN MOTION CORPORATION	09/01/2010
<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>
	Application Number:	16532693
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(713)468-8883	
<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>Phone:</b>	713-468-8880	
<b>Email:</b>	chayes@tphm.com	
<b>Correspondent Name:</b>	TROP PRUNER & HU, P.C.	
<b>Address Line 1:</b>	1616 SOUTH VOSS ROAD	
<b>Address Line 2:</b>	SUITE 750	
<b>Address Line 4:</b>	HOUSTON, TEXAS 77057-2631	
<b>ATTORNEY DOCKET NUMBER:</b>	32733 RIM.0249C1US	
<b>NAME OF SUBMITTER:</b>	DAN C. HU	
<b>SIGNATURE:</b>	/Dan C. Hu, Reg. No. 40025/	
<b>DATE SIGNED:</b>	08/07/2019	
<b>Total Attachments: 5</b>		
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## CONFIRMATION AND ASSIGNMENT

WHEREAS RESEARCH IN MOTION LIMITED, a corporation organized under the laws of the Province of Ontario, Canada, having a place of business at 295 Phillip Street, Waterloo, Ontario, N2L 3W8, Canada, (the "ASSIGNEE") is the owner of certain rights, title and interest in and to certain inventions and designs (the "Inventions"); and

WHEREAS RESEARCH IN MOTION CORPORATION, a corporation 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., (the "ASSIGNOR") and ASSIGNEE are parties to a Selling, General, Administration And Other Services Agreement effective October 23, 2005 and as amended from time to time (the "SG&A Agreement"), where said SG&A Agreement provides that ASSIGNEE shall be the owner of all developments, modifications, improvements, adaptations of and derivative works, related to the Inventions, whether created by ASSIGNEE or ASSIGNOR or on their behalf ("Developments"); and

WHEREAS ASSIGNOR agrees that it has received full market consideration under the SG&A Agreement; and

WHEREAS ASSIGNOR wishes to confirm that ASSIGNEE is the owner of all rights, title and interest of the ASSIGNOR in and to certain of the Developments ("Creations"), described in documents, descriptions and/or drawings ("Creation Documents"), and/or described in applications for patents, design registrations, utility model registrations and other forms of protection ("Applications"), inclusive of any and all priority rights derived therefrom, and all ancillary rights relating thereto, as listed in "Schedule A" attached hereto.

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged by ASSIGNOR and ASSIGNEE, ASSIGNOR and ASSIGNEE, intending to be legally bound, agree as follows:

ASSIGNOR hereby confirms that it has transferred, conveyed and assigned, and by way of further assurance, to the extent that the transfer, conveyance or assignment has not already been fully effected, ASSIGNOR hereby transfers, conveys and assigns, any and all of its rights, title and interest in and to: the Creations; the Creation Documents; Applications; any further applications for patents, designs, utility models or other forms of protection, rights or titles for the whole or any part or parts of or improvements to the Creations 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 Creations and Creation Documents; 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 Creations, Creation Documents, Applications, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this assignment; with the

intent that the Creations, Creation Documents, Applications, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

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

ASSIGNOR hereby authorizes and requests The Commissioner of Patents, or any equivalent authority, to issue to ASSIGNEE each and every patent, registration and other forms of protection, right and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns and shall be binding upon ASSIGNOR and its successors and permitted assigns.

IF ANY COVENANT OR PROVISION, or portion thereof, of this document is determined to be void or unenforceable, such void or unenforceable covenant or provision, or portion thereof, is hereby conceded to be severable from the balance of this document, and any such determination shall not, in any event, affect or impair the validity of the balance of the covenant or provision, nor shall it affect or impair the validity of any other covenant or provision herein contained.

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

Research In Motion Corporation

Date: 09/01/10

By: [Signature]  
Name: William Peng  
Title: Authorized Signing Officer

STATEMENT BY WITNESS

I, Cindy Schneider whose full Post Office Address is

2200 University Ave East Waterloo ON N2K 0A7.  
(Address of Witness)

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

Date: 09/01/10

[Signature]  
(Signature of Witness)

Legal OK

- 3/4 -

JLN as per V5.0  
CF 201210 3 Rm  
201210 3 Rm  
PATENT


RIM OK

REEL: 024989 FRAME: 0190

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

Research In Motion Limited

Date: 09/03/10

  
By:  
Name: Tim Martin  
Title: Authorized signing officer

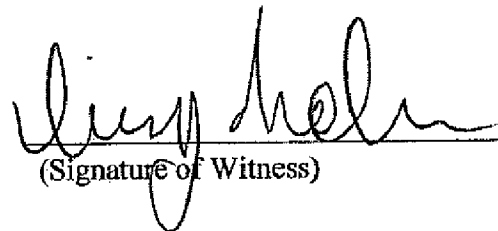
STATEMENT BY WITNESS

I, Cindy Schneider whose full Post Office Address is

2200 University Ave East Waterloo ON N2K 0A7  
(Address of Witness)

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

Date: 09/03/10

  
(Signature of Witness)

Legal OK

- 4/4 -

JLM as per  
CF V5.0  
08/23/10 Rm.  
08/20/10

PATENT

REEL: 022989 FRAME: 0094

RIM OK

## SCHEDULE "A" to Confirmation and Assignment

Title	Country Code	Appln. No.	File Date	Agent of Record File #	RIM File #
TRANSMISSION OF CONTROL INFORMATION IN A BROADCAST/MULTICAST SINGLE FREQUENCY NETWORK	CA	2,698,023	09 Nov 2007	47399-0034	32733-CA-PCT
MULTICAST/BROADCAST SINGLE FREQUENCY NETWORK CONTROL INFORMATION TRANSMISSION	CN	PCT/CA2007/002035	09 Nov 2007	PA101408A	32733-CN-PCT
TRANSMISSION OF CONTROL INFORMATION IN A BROADCAST/MULTICAST SINGLE FREQUENCY NETWORK	EP	07845505.2	09 Nov 2007	P49548EP-K/GCF	32733-EP-EPT
MULTICAST/BROADCAST SINGLE FREQUENCY NETWORK CONTROL INFORMATION TRANSMISSION	US	11/931,710	31 Oct 2007	32722-US-PAT (4214-03401)	32733-US-PAT
MBSFN CONTROL INFORMATION TRANSMISSION	US	60/970,106	05 Sep 2007	4214-03400	32733-US-PRV
MULTICAST/BROADCAST SINGLE FREQUENCY NETWORK CONTROL INFORMATION TRANSMISSION	WO	PCT/CA2007/002035	09 Nov 2007	PAT 64836W-90	32733-WO-PCT

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RECORDED: 09/07/2019

REEL: 024989 FRAME: 0192

RIM OK