

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5591893

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BLACKBERRY CORPORATION	05/03/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BLACKBERRY LIMITED
<b>Street Address:</b>	2200 UNIVERSITY AVENUE EAST
<b>City:</b>	WATERLOO, ONTARIO
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	N2K 0A7
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16266421
<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>	29717-2017003
<b>NAME OF SUBMITTER:</b>	CHRISTIE LOVEN
<b>SIGNATURE:</b>	/Christie Loven/
<b>DATE SIGNED:</b>	06/26/2019
<b>Total Attachments: 5</b>	
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## CONFIRMATION AND ASSIGNMENT

WHEREAS BLACKBERRY CORPORATION, a corporation organized under the laws of the State of Delaware, U.S.A., having a place of business at 6700 Koll Center Parkway, 2<sup>nd</sup> Floor, Suite 200, Pleasanton, California, 94566, USA, (the "ASSIGNOR") is the owner of certain rights, title and interest in and to certain inventions and designs (the "Assignor Inventions"); and

WHEREAS BLACKBERRY LIMITED, a corporation organized under the laws of the Province of Ontario, Canada, having a place of business at 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada, (the "ASSIGNEE") is the owner of certain rights, title and interest in and to certain inventions and designs (the "Assignee Inventions"); and

WHEREAS ASSIGNOR and ASSIGNEE agree that ASSIGNEE is the owner of developments, modifications, improvements, adaptations of and derivative works, related to the Assignor Inventions or Assignee Inventions, whether created by ASSIGNEE or ASSIGNOR or on their behalf (the "Developments"), and that ASSIGNOR has received full market consideration therefor; 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, inclusive of any and all priority rights, including the right to claim priority, derived from the 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 does hereby authorize ASSIGNEE or its patent agents or attorneys to insert in Schedule "A" 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 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.

DELIVERY of this Confirmation and Assignment by copy, however transmitted, constitutes valid and effective delivery. This Confirmation and 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 Confirmation And Assignment has been executed below by the undersigned:

BlackBerry Corporation

Date: May 3/16

[Signature]

By:  
Name: Steve Rai  
Title: Treasurer

STATEMENT BY WITNESS

I, Janice-Lyn Hornbostel whose full Post Office Address is

2000 University Ave. E. Windsor, Ontario, N3K 0A7, Canada  
(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: May 3/16

[Signature]  
(Signature of Witness)

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

BlackBerry Limited

Date: May 3/16

[Signature]

By:

Name: Keith Bennett

Title: Authorized Signing Officer

STATEMENT BY WITNESS

I, Jamie-Lyn Vernon whose full Post Office Address is

2000 University Avenue E. Waterloo, Ontario, N2K 1A7  
(Address of Witness) Canada

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: May 3/16

[Signature]  
(Signature of Witness)

## SCHEDULE "A" to Confirmation and Assignment

Country Code	Appln. No.	File Date	RIM File #
US	14/005214	May 31 2011	41218-US-PCT
US	61/452723	Mar 15 2011	41218-US-PRV
WO	PCT/US2011/38543	May 31 2011	41218-WO-PCT
CN	201280076306.4	Aug 10 2012	45424-CN-PCT
EP	12882748.2	Aug 10 2012	45424-EP-EPT
HK	15114120	Nov 19 2015	45424-HK-FPR
US	14/420849	Aug 10 2012	45424-US-PCT
WO	PCT/US2012/050412	Aug 10 2012	45424-WO-PCT
EP	13151350.9	Jan 15 2013	45591-EP-EPA
US	13/742013	Jan 15 2013	45591-US-PAT
EP	13/60888.1	Aug 01 2013	45767-EP-EPT
HK	15111974.0	Dec 04 2015	45767-HK-FPR
US	13/056984	Aug 01 2013	45767-US-PAT
US	61/679037	Aug 02 2012	45767-US-PRV
WO	PCT/US2013/053268	Aug 01 2013	45767-WO-PCT
EP	15305855.7	Jun 04 2015	48863-EP-EPA
US	14/870728	Sep 30 2015	48863-US-PAT
US	15/018643	Feb 08 2016	49425-US-PAT
US	14/834216	Aug 24 2015	49572-US-PAT