504099985 11/17/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4146654

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROGER PAUL BOWMAN	09/19/2016
DMITRI PECHKIN	09/19/2016
TIMOTHY LEE SEGATO	10/21/2016

RECEIVING PARTY DATA

Name:	BLACKBERRY LIMITED	
Street Address:	2200 UNIVERSITY AVENUE EAST	
City:	WATERLOO, ONTARIO	
State/Country:	CANADA	
Postal Code:	N2K 0A7	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15255921

CORRESPONDENCE DATA

(877)769-7945 Fax Number:

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:	29717-2179001
NAME OF SUBMITTER:	CHRISTIE LOVEN
SIGNATURE:	/Christie Loven/
DATE SIGNED:	11/17/2016

Total Attachments: 15

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WORLDWIDE ASSIGNMENT

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

BOWMAN, Roger Paul, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada PECHKIN, Dmitri, 1875 Buckhorn Gate, 5th Floor, Mississauga, ON, L4W 5P1, Canada SEGATO, Timothy Lee, 1875 Buckhorn Gate, 5th Floor, Mississauga, ON, L4W 5P1, Canada

am an/are inventor(s) of an invention entitled ENCRYPTING AND DECRYPTING DATA ON AN ELECTRONIC DEVICE ("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. 15/255921, filed on September 2, 2016

AND WHEREAS, BLACKBERRY 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 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, 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 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

Page 1 of 5 V7.3

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 W undersigned:	orldwide Assignment has been executed below by the
Roger Paul BOWMAN 2200 University Avenue East Waterloo, ON N2K 0A7 Canada	Date: <u>Sept-17/2016</u>
STATE	MENT BY WITNESS
I, <u>J. Lynn Fagan</u> 801 Creekside	, whose full Post Office address is
(Ad	Idress of Witness)
hereby declare that I was personally prese	ent and did see the above named person, personally Worldwide Assignment, duly sign and execute same.
(Signature of Witness)	Date: $\frac{360}{10}$ $\frac{10}{2016}$

Page 3 of 5

BlackBerry	Family	Ref. N	√o.: 50211
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IN WITNESS WHEREOF, this undersigned:	Worldwide Assignment has been executed below by the
	Dota:
Dmitri PECHKIN	Date:
1875 Buckhorn Gate, 5th Floo Mississauga, ON L4W 5P1)r
Canada	
	STATEMENT BY WITNESS
Ι,	, whose full Post Office address is
**************************************	(Address of Witness)
hereby declare that I was person known to me to be a person nar	nally present and did see the above named person, personally ned in the Worldwide Assignment, duly sign and execute same.
(Signature of Witness)	Date:

Page 4 of 5

Timothy Lee SEGATO	Date:
1875 Buckhorn Gate, 5th Floo	T
Mississauga, ON	
L4W 5P1	
Canada	
	STATEMENT BY WITNESS
	whose full Post Office add
I ,	, whose full Post Office add
I,	
I,	, whose full Post Office add (Address of Witness)
	(Address of Witness)
hereby declare that I was person	
hereby declare that I was person	(Address of Witness) ally present and did see the above named person, person
hereby declare that I was person	(Address of Witness) ally present and did see the above named person, person
hereby declare that I was person	(Address of Witness) ally present and did see the above named person, person
hereby declare that I was person known to me to be a person nan	(Address of Witness) ally present and did see the above named person, personed in the Worldwide Assignment, duly sign and execute
hereby declare that I was person	(Address of Witness) ally present and did see the above named person, person

Page 5 of 5

WORLDWIDE ASSIGNMENT

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

BOWMAN, Roger Paul, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada PECHKIN, Dmitri, 1875 Buckhorn Gate, 5th Floor, Mississauga, ON, L4W 5P1, Canada SEGATO, Timothy Lee, 1875 Buckhorn Gate, 5th Floor, Mississauga, ON, L4W 5P1, Canada

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AND WHEREAS, **BLACKBERRY 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 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, 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 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

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Page 2 of 5

IN WITNESS WHEREC undersigned:	F, this Worldwide	Assignment h	as been e	xecuted belov	v by the
Roger Paul BOWMAN 2200 University Avenue East Waterloo, ON N2K 0A7 Canada	Date:				
	STATEMENT B	Y WITNESS			
Ι,		, who:	se full Po	st Office addı	ess is
·····	(Address of	Witness)		***************************************	i i i i i i i i i i i i i i i i i i i
hereby declare that I was person known to me to be a person nam	ally present and di	d see the above	e named p	erson, persor	nally
(Signature of Witness)		Date:			

IN WITNESS WHEREOF, this Worldwide Assi undersigned:	gnment has been executed below by the
	e: <u>Sep+ 19,2016</u>
Dmitri PECHKIN 1875 Buckhorn Gate, 5th Floor Mississauga, ON L4W 5P1 Canada	
STATEMENT	BY WITNESS
ı, <u>Janseyit Tileubay</u>	whose full Post Office address is
1875 Buckhorn Gate, 50 (Address o	th floor, Mississauga, ON L4W 5P f Witness)
hereby declare that I was personally present and a known to me to be a person named in the Worldw	
A Tileubay (Signature of Witness)	Date: Sept 19, 2016

Page 4 of 5

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:						
Date:						
Fimothy Lee SEGATO 1875 Buckhorn Gate, 5th Floor Mississauga, ON L4W 5P1 Canada						
STATEMENT BY WITNESS						
I,, whose full Post Office address	is is					
(Address of Witness)						
hereby declare that I was personally present and did see the above named person, personall known to me to be a person named in the Worldwide Assignment, duly sign and execute sa						
(Signature of Witness)						

Page 5 of 5

WORLDWIDE ASSIGNMENT

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

BOWMAN, Roger Paul, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada PECHKIN, Dmitri, 1875 Buckhorn Gate, 5th Floor, Mississauga, ON, L4W 5P1, Canada SEGATO, Timothy Lee, 1875 Buckhorn Gate, 5th Floor, Mississauga, ON, L4W 5P1, Canada

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Date: 10/21/20/6

IN	WITNESS	WHEREOF,	this	Worldwide	Assignment h	as been	executed	below	by the
un	dersigned:								

Timothy Lee SEGATO

1875 Buckhorn Gate, 5th Floor

Mississauga, ON

L4W 5P1 Canada

STATEMENT BY WITNESS

I,	DEU	JUGDED	, whose full Post Office address is
18	75 B	UCKHORN GATE	MESISSAUGA, ONT O RIO
		(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: O+ 21 2016

Page 5 of 5

V7.3

PATENT REEL: 040351 FRAME: 0366

RECORDED: 11/17/2016