

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6180803

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MAHENDRA FULESHWAR PRASAD	12/19/2017
MICHAEL PETER MONTEMURRO	08/22/2017
SCOTT LEONARD DILL	08/25/2017
JAMES RANDOLPH WINTER LEPP	10/13/2017
<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>	16918030
<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>	713-385-0756
<b>Email:</b>	chayes@tphm.com
<b>Correspondent Name:</b>	TROP PRUNER & HU, P.C.
<b>Address Line 1:</b>	P.O. BOX 41790
<b>Address Line 4:</b>	HOUSTON, TEXAS 77241
<b>ATTORNEY DOCKET NUMBER:</b>	50374 RIM.0227C1US
<b>NAME OF SUBMITTER:</b>	DAN C. HU
<b>SIGNATURE:</b>	/Dan C. Hu, Reg. No. 40025/
<b>DATE SIGNED:</b>	07/01/2020
<b>Total Attachments: 24</b>	
source=50374_2017-12-19_ASN_Prasad-#page1.tif	
source=50374_2017-12-19_ASN_Prasad-#page2.tif	
source=50374_2017-12-19_ASN_Prasad-#page3.tif	

source=50374\_2017-12-19\_ASN\_Prasad-#page4.tif  
source=50374\_2017-12-19\_ASN\_Prasad-#page5.tif  
source=50374\_2017-12-19\_ASN\_Prasad-#page6.tif  
source=50374\_2017-08-22\_ASN\_Montemurro#page1.tif  
source=50374\_2017-08-22\_ASN\_Montemurro#page2.tif  
source=50374\_2017-08-22\_ASN\_Montemurro#page3.tif  
source=50374\_2017-08-22\_ASN\_Montemurro#page4.tif  
source=50374\_2017-08-22\_ASN\_Montemurro#page5.tif  
source=50374\_2017-08-22\_ASN\_Montemurro#page6.tif  
source=50374\_2017-08-25\_ASN\_Dill-#page1.tif  
source=50374\_2017-08-25\_ASN\_Dill-#page2.tif  
source=50374\_2017-08-25\_ASN\_Dill-#page3.tif  
source=50374\_2017-08-25\_ASN\_Dill-#page4.tif  
source=50374\_2017-08-25\_ASN\_Dill-#page5.tif  
source=50374\_2017-08-25\_ASN\_Dill-#page6.tif  
source=50374\_2017-10-13\_ASN\_Lepp-#page1.tif  
source=50374\_2017-10-13\_ASN\_Lepp-#page2.tif  
source=50374\_2017-10-13\_ASN\_Lepp-#page3.tif  
source=50374\_2017-10-13\_ASN\_Lepp-#page4.tif  
source=50374\_2017-10-13\_ASN\_Lepp-#page5.tif  
source=50374\_2017-10-13\_ASN\_Lepp-#page6.tif

**WORLDWIDE ASSIGNMENT**

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

**Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**Michael Peter MONTEMURRO, 4701 Tahoe Blvd., Tahoe A, Mississauga, ON, L4W 0B5, Canada**

**Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**James Randolph Winter LEPP, 1001 Farrar Road, Ext. 12056, Kanata, Ontario, K2K 0B3, Canada**

am an/are inventor(s) of an invention entitled **METHOD AND SYSTEM FOR BATTERY LIFE IMPROVEMENT FOR LOW POWER DEVICES IN WIRELESS SENSOR NETWORKS** (“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 # 15/680,285, FILED August 18, 2017**

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 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 Assignment has been executed below by the undersigned:

  
\_\_\_\_\_  
Mahendra PULESHWAR PRASAD  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

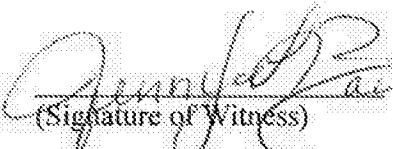
Date: Dec 19, 2017

STATEMENT BY WITNESS

I, Jennifer Baumann, whose full Post Office address is

2200 University Ave East, Waterloo, ON N2K0A7  
(Address of Witness) Canada

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: Dec 19/2017

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

\_\_\_\_\_  
Michael Peter MONTEMURRO  
4701 Tahoe Blvd., Tahoe A,  
Mississauga, ON, L4W 0B5, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

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

\_\_\_\_\_  
Scott Leonard DILL  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

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

\_\_\_\_\_  
James Randolph Winter LEPP  
1001 Farrar Road, Ext. 12056,  
Kanata, Ontario, K2K 0B3, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_



**WORLDWIDE ASSIGNMENT**

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

**Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**Michael Peter MONTEMURRO, 4701 Tahoe Blvd., Tahoe A, Mississauga, ON, L4W 0B5, Canada**

**Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**James Randolph Winter LEPP, 1001 Farrar Road, Ext. 12056, Kanata, Ontario, K2K 0B3, Canada**

am an/are inventor(s) of an invention entitled **METHOD AND SYSTEM FOR BATTERY LIFE IMPROVEMENT FOR LOW POWER DEVICES IN WIRELESS SENSOR NETWORKS** ("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 # 15/680,285, FILED August 18, 2017**

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 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.

BlackBerry Family Ref. No.: 50374-US-PAT

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

\_\_\_\_\_  
Mahendra FULESHWAR PRASAD  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

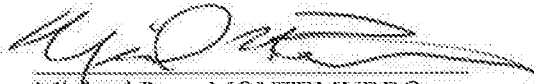
\_\_\_\_\_  
(Address of Witness)

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: \_\_\_\_\_

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



Michael Peter MONTEMURRO  
4701 Tahoe Blvd., Tahoe A,  
Mississauga, ON, L4W 0B5, Canada

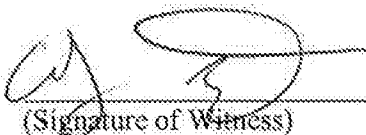
Date: 22 AUG 2017

STATEMENT BY WITNESS

I, ALEXANDER LEVATO, whose full Post Office address is

4701 TAHOE BLVD, MISSISSAUGA ON  
(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: AUG 22, 2017

BlackBerry Family Ref. No.: 50374-US-PAT

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

\_\_\_\_\_  
Scott Leonard DILL  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

BlackBerry Family Ref. No.: 50374-US-PAT

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

\_\_\_\_\_  
James Randolph Winter LEPP  
1001 Farrar Road, Ext. 12056,  
Kanata, Ontario, K2K 0B3, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

**WORLDWIDE ASSIGNMENT**

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

**Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**Michael Peter MONTEMURRO, 4701 Tahoe Blvd., Tahoe A, Mississauga, ON, L4W 0B5, Canada**

**Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**James Randolph Winter LEPP, 1001 Farrar Road, Ext. 12056, Kanata, Ontario, K2K 0B3, Canada**

am an/are inventor(s) of an invention entitled **METHOD AND SYSTEM FOR BATTERY LIFE IMPROVEMENT FOR LOW POWER DEVICES IN WIRELESS SENSOR NETWORKS** ("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 # 15/680,285, FILED August 18, 2017**

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 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 Assignment has been executed below by the undersigned:

\_\_\_\_\_  
Mahendra FULESHWAR PRASAD  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

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

\_\_\_\_\_  
Michael Peter MONTEMURRO  
4701 Tahoe Blvd., Tahoe A,  
Mississauga, ON, L4W 0B5, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

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

\_\_\_\_\_  
James Randolph Winter LEPP  
1001 Farrar Road, Ext. 12056,  
Kanata, Ontario, K2K 0B3, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

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



Scott Leonard DILL  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

Date: 8-25-2017

STATEMENT BY WITNESS

I, ALEXANDER JOHN OGLE, whose full Post Office address is

205 ALEXANDRA AVE APT 205 WATERLOO ON N2L 1L4  
(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: 25 AUG 2017

**WORLDWIDE ASSIGNMENT**

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

**Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**Michael Peter MONTEMURRO, 4701 Tahoe Blvd., Tahoe A, Mississauga, ON, L4W 0B5, Canada**

**Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada**

**James Randolph Winter LEPP, 1001 Farrar Road, Ext. 12056, Kanata, Ontario, K2K 0B3, Canada**

am an/are inventor(s) of an invention entitled **METHOD AND SYSTEM FOR BATTERY LIFE IMPROVEMENT FOR LOW POWER DEVICES IN WIRELESS SENSOR NETWORKS** ("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 # 15/680,285, FILED August 18, 2017**

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 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 Assignment has been executed below by the undersigned:

\_\_\_\_\_  
Mahendra FULESHWAR PRASAD  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

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

\_\_\_\_\_  
Michael Peter MONTEMURRO  
4701 Tahoe Blvd., Tahoe A,  
Mississauga, ON, L4W 0B5, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_



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

\_\_\_\_\_  
Scott Leonard DILL  
2200 University Avenue East,  
Waterloo, Ontario, N2K 0A7, Canada

Date: \_\_\_\_\_

STATEMENT BY WITNESS

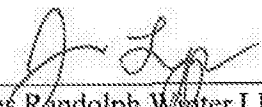
I, \_\_\_\_\_, whose full Post Office address is

\_\_\_\_\_  
(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: \_\_\_\_\_

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

  
James Randolph Winter LEPP  
1001 Farrar Road, Ext. 12056,  
Kanata, Ontario, K2K 0B3, Canada


Date: Oct 13, 2017

STATEMENT BY WITNESS

I, Sandra Touchette, whose full Post Office address is

446 Templeford Ave., Kanata, ON, K2M 0B7  
(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: Oct 13, 2017