

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4665902

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MAHADEVAN VASUDEVAN	10/30/2017
KEVIN BARRETT	10/30/2017
BEN HULBERT	10/31/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC IP HOLDING COMPANY LLC
<b>Street Address:</b>	176 SOUTH STREET
<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15797220
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(508)898-8602
<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>	5088988601
<b>Email:</b>	docketing@westboro-ip.com
<b>Correspondent Name:</b>	MUIRHEAD AND SATURNELLI, LLC
<b>Address Line 1:</b>	200 FRIBERG PARKWAY
<b>Address Line 2:</b>	SUITE 1001
<b>Address Line 4:</b>	WESTBOROUGH, MASSACHUSETTS 01581
<b>ATTORNEY DOCKET NUMBER:</b>	EMS-669US
<b>NAME OF SUBMITTER:</b>	ANNE E. SATURNELLI
<b>SIGNATURE:</b>	/Anne E. Saturnelli/
<b>DATE SIGNED:</b>	10/31/2017
<b>Total Attachments: 7</b>	
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**ASSIGNMENT**

**WHEREAS**, we, Mahadevan VASUDEVAN, Kevin BARRETT and Ben HULBERT, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled TECHNIQUES FOR PERSISTING AND MODIFYING CONFIGURATION REQUIREMENT STATE INFORMATION IN A MULTIPLE NODE SYSTEM, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on October 30, 2017 as U.S. Application No. 15/797,220;
- was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

**WHEREAS**, EMC IP HOLDING COMPANY LLC (hereinafter "ASSIGNEE"), which is a corporation organized and existing under the laws of Delaware and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

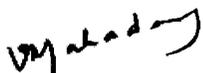
**AND**, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

AND, we hereby authorize attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis ( ) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 10/30/2017

  
Inventor's Signature

Print full name of first inventor: **Mahadevan VASUDEVAN**  
Residence: 8 Upton Road  
Westborough, MA 01581  
Citizenship: INDIA  
Mailing Address: Same as above

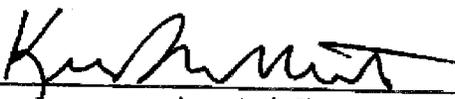
I, Naizhong Chiu (name) whose residential address is 15 Shumaker Path, Newton, MA 02459 was personally present and did see Mahadevan Vasudevan (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)  
Signed at 228 South St. Hopkinton, MA 01748 (location of witness signature)  
on this day 30<sup>th</sup> Oct of 2017 (date of signature)

I, Marion Meirlaen (name) whose residential address is 27 Harmony Drive Millville MA 01529 was personally present and did see Mahadevan Vasudevan (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)  
Signed at 228 South St Hopkinton MA (location of witness signature)  
on this day 10/30 of 2017 (date of signature)

Date: 30-OCT-2017

  
\_\_\_\_\_  
Inventor's Signature

Print full name of second inventor:

Kevin BARRETT

Residence:

69 Trowbridge Lane

Shrewsbury, MA 01545

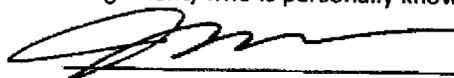
Citizenship:

USA

Mailing Address:

Same as above

I, Naizhong Chin (name) whose residential address is 15 Shumaker Path Newton, MA, 02459 was personally present and did see Kevin Barrett (name of person signing the assignment) who is personally known to me, execute the above assignment.

  
\_\_\_\_\_  
(signature of first witness)

Signed at 228 South St. Hopkinton, MA 01748  
(location of witness signature)

on this day 30<sup>th</sup> Oct of 20 17 (date of signature)

I, Marion Meislen (name) whose residential address is 27 Harmony Drive Millville MA 01529 was personally present and did see Kevin Barrett (name of person signing the assignment) who is personally known to me, execute the above assignment.

  
\_\_\_\_\_  
(signature of second witness)

Signed at 228 South St Hopkinton MA (location of witness signature)

on this day 10/30 of 20 17 (date of signature)

**Attorney Docket No.: EMS-669US**

**EMC Docket No.: 109129.01**

**ASSIGNMENT**

**WHEREAS**, we, Mahadevan VASUDEVAN, Kevin BARRETT and Ben HULBERT, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled **TECHNIQUES FOR PERSISTING AND MODIFYING CONFIGURATION REQUIREMENT STATE INFORMATION IN A MULTIPLE NODE SYSTEM**, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on October 30, 2017 as U.S. Application No. 15/797,220;
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**WHEREAS**, EMC IP HOLDING COMPANY LLC (hereinafter "ASSIGNEE"), which is a corporation organized and existing under the laws of Delaware and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

**Attorney Docket No.: EMS-669US  
EMC Docket No.: 109129.01**

**AND**, we hereby authorize attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis ( \_\_\_\_\_ ) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

**IN TESTIMONY WHEREOF**, we have hereunto set our hands and affixed our seals as set forth below:

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

\_\_\_\_\_  
Inventor's Signature

Print full name of first inventor:

**Mahadevan VASUDEVAN**

Residence:

8 Upton Road  
Westborough, MA 01581

Citizenship:

USA

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_ was personally present and did see \_\_\_\_\_ (name of person signing the assignment) who is personally known to me, execute the above assignment.

\_\_\_\_\_ (signature of first witness)

Signed at \_\_\_\_\_ (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_ was personally present and did see \_\_\_\_\_ (name of person signing the assignment) who is personally known to me, execute the above assignment.

\_\_\_\_\_ (signature of second witness)

Signed at \_\_\_\_\_ (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_. (date of signature)

**Attorney Docket No.: EMS-669US  
EMC Docket No.: 109129.01**

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

\_\_\_\_\_  
Inventor's Signature

Print full name of second inventor:

**Kevin BARRETT**

Residence:

69 Trowbridge Lane  
Shrewsbury, MA 01545

Citizenship:

USA

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_ was  
personally present and did see \_\_\_\_\_ (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

\_\_\_\_\_ (signature of first witness)

Signed at \_\_\_\_\_ (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_. (date of signature)

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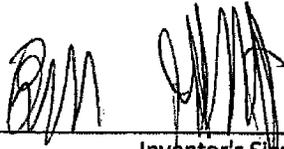
\_\_\_\_\_ (signature of second witness)

Signed at \_\_\_\_\_ (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_. (date of signature)

Attorney Docket No.: EMS-669US  
EMC Docket No.: 109129.01

Date: 10/31/2017

  
\_\_\_\_\_  
Inventor's Signature

Print full name of third inventor:

**Ben HULBERT**

Residence:

100 Swiss Stone Ct

Cary, NC 27513

Citizenship:

USA

Mailing Address:

Same as above

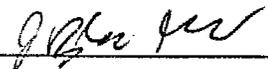
I Roko Peros (name) whose residential address is 4816 Edgecliff Ct Holly Springs NC was personally present and did see Ben Hulbert (name of person signing the assignment) who is personally known to me, execute the above assignment.

  
\_\_\_\_\_  
(signature of first witness)

Signed at RTP, NC (location of witness signature)

on this day 10/31 of 2017. (date of signature)

I Brandon Myers (name) whose residential address is 5615 Cary Glen (WV) Cary, NC, 27519 was personally present and did see Ben Hulbert (name of person signing the assignment) who is personally known to me, execute the above assignment.

  
\_\_\_\_\_  
(signature of second witness)

Signed at RTP, NC (location of witness signature)

on this day 10/31 of 2017 (date of signature)