

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FREDERICK DOUGLIS	01/29/2015
CHENG LI	01/29/2015
PHILIP SHILANE	01/29/2015
GRANT WALLACE	01/29/2015
<b>RECEIVING PARTY DATA</b>	
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<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>	14609902
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)720-8383
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<b>ATTORNEY DOCKET NUMBER:</b>	6368P141F2
<b>NAME OF SUBMITTER:</b>	TAM Q. TRAN
<b>SIGNATURE:</b>	/ Tam Q. Tran /
<b>DATE SIGNED:</b>	01/30/2015
<b>Total Attachments: 6</b>	
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## ASSIGNMENT

WHEREAS, we, Frederick Douglass, Cheng Li, Philip Shilane, and Grant Wallace, 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 METHODS TO SELECT SEGMENTS OF AN EVICTED CACHE UNIT FOR REINSERTION INTO THE CACHE (Application), 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 \_\_\_\_\_ as U.S. Application No. \_\_\_\_\_;
- ☐ was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts 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 our attorneys, EMC Corporation, to insert here in parentheses (14/609,902 filed January 30, 2015) 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: Jan. 29, 2015

Frederick Douglass  
Inventor's Signature

Print full name of inventor:

**Frederick Douglass**

Residence:

152 Smoke Rise Road

Basking Ridge, New Jersey 07920

Citizenship:

United States of America

Mailing Address:

Same as above

STATE/Commonwealth of

NS

COUNTY OF

Merse

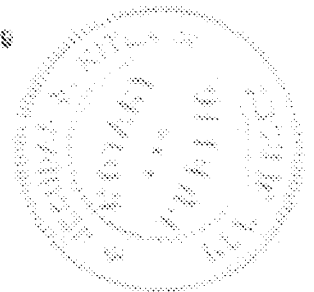
On this 29 day of January, 20 15 then personally appeared before me the above-named **Frederick Douglass** known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) \_\_\_\_\_ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Jesudas S. Nitla  
Notary Public

Print Name: Jesudas S. Nitla

My Commission expires 8/11/2019

JESUDAS S. NITLA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires August 11, 2019



Date: 29-Jan-2015

Cheng Li

Inventor's Signature

Print full name of inventor:

**Cheng Li**

Residence:

333 Crowells Road

Highland Park, New Jersey 08904

Citizenship:

China

Mailing Address:

Same as above

STATE/Commonwealth of  
COUNTY OF

New Jersey  
Middlesex

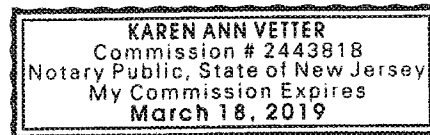
On this 29 day of January, 2015, then personally appeared before me the above-named **Cheng Li** known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) \_\_\_\_\_ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Karen Vetter

Notary Public

Print Name: Karen Vetter

My Commission expires 3/18/2019



Date:

Jan 29, 2015

[Signature]  
Inventor's Signature

Print full name of inventor:

**Philip Shilane**

Residence:

559 Aspen Woods Drive  
Yardley, Pennsylvania 19067

Citizenship:

United States of America

Mailing Address:

Same as above

STATE/Commonwealth of  
COUNTY OF

NJ

Merca

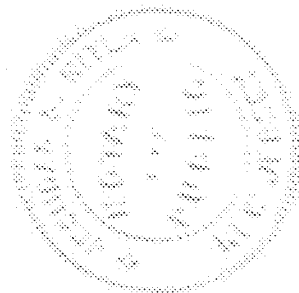
On this 29 day of January, 20 15, then personally appeared before me the  
above-named **Philip Shilane** known to me through satisfactory evidence of identification  
☐ employee identification card; ☒ driver's license; ☐ (other) \_\_\_\_\_  
to be the person whose name is subscribed to the foregoing Assignment and acknowledged that  
he/she executed the same as his/her free act and deed for the purposes therein contained.

[Signature]  
Notary Public

Print Name: Jesudas S. Nitya

My Commission expires 8/11/2019

JESUDAS S. NITYA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires August 11, 2019



Date: 1/29/2015

Grant Wallace  
Inventor's Signature

Print full name of inventor: **Grant Wallace**  
Residence: 405 Oak Street  
Pennington, New Jersey 08534  
Citizenship: United States of America  
Mailing Address: Same as above

STATE/Commonwealth of New Jersey  
COUNTY OF Mercer

On this 29 day of January, 2015, then personally appeared before me the  
above-named **Grant Wallace** known to me through satisfactory evidence of identification  
[ ] employee identification card; [ ] driver's license; [ ] (other) \_\_\_\_\_  
to be the person whose name is subscribed to the foregoing Assignment and acknowledged that  
he/she executed the same as his/her free act and deed for the purposes therein contained.

Jesudas S. Nitla  
Notary Public

Print Name: Jesudas S. Nitla  
My Commission expires 8/11/2019

JESUDAS S. NITLA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires August 11, 2019

