

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PHILIP SHILANE	01/29/2015
GRANT WALLACE	01/29/2015
FREDERICK DOUGLIS	01/29/2015
CHENG LI	01/29/2015
RECEIVING PARTY DATA	
Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14609839
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<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>	
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ATTORNEY DOCKET NUMBER:	6368P141
NAME OF SUBMITTER:	TAM Q. TRAN
SIGNATURE:	/ Tam Q. Tran /
DATE SIGNED:	01/30/2015
Total Attachments: 6	
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ASSIGNMENT

WHEREAS, we, Philip Shilane, Grant Wallace, Frederick Douglass, and Cheng Li, 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 EFFICIENTLY IMPLEMENT COARSE GRANULARITY CACHE EVICTION BASED ON SEGMENT DELETION HINTS (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 (14/609,839 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

[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

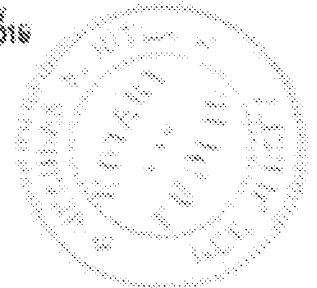
STATE/Commonwealth of NJ
COUNTY OF Monroe

On this 29 day of January, 2015, 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. Nitla
My Commission expires 8/11/2019

JESUDAS S. NITLA
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
COUNTY OF

New Jersey
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



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

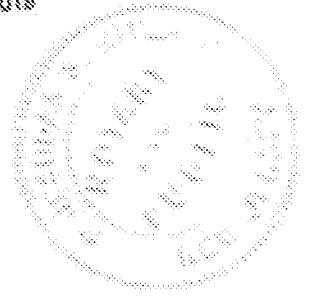
STATE/Commonwealth of MS
COUNTY OF Merger

On this 29 day of JANUARY, 2015, 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 New Jersey
COUNTY OF 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

