

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3655310

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHENG LI	12/05/2015
PHILIP SHILANE	12/07/2015
GRANT WALLACE	12/05/2015
FREDERICK DOUGLIS	12/07/2015
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:	14966637
CORRESPONDENCE DATA	
Fax Number:	(408)973-2595
<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>	
Phone:	408-973-2585
Email:	enguyen@ip-patent.com
Correspondent Name:	VAN PELT, YI & JAMES LLP AND EMC CORPORA
Address Line 1:	10050 N. FOOTHILL BLVD.
Address Line 2:	SUITE 200
Address Line 4:	CUPERTINO, CALIFORNIA 95014
ATTORNEY DOCKET NUMBER:	EMCCP497
NAME OF SUBMITTER:	WILLIAM J. JAMES
SIGNATURE:	/william j. james/
DATE SIGNED:	12/11/2015
Total Attachments: 6	
source=EMCCP497 Executed Assignment#page1.tif	
source=EMCCP497 Executed Assignment#page2.tif	

source=EMCCP497 Executed Assignment#page3.tif

source=EMCCP497 Executed Assignment#page4.tif

source=EMCCP497 Executed Assignment#page5.tif

source=EMCCP497 Executed Assignment#page6.tif

ASSIGNMENT

WHEREAS, we, Cheng Li, Philip Shilane, Grant Wallace, and Frederick Douglass 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 **FLASH CACHE THROTTLING TO CONTROL ERASURES**, 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.

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

Date: 5-Dec-2015

Cheng Li

Inventor's Signature

Print full name of first inventor:

Cheng Li

Residence:

Palo Alto, CA

Citizenship:

People's Republic of China

Mailing Address:

176 South Street

Hopkinton, MA 01748

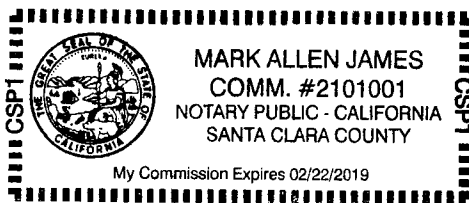
STATE OF
COUNTY OF

California
Santa Clara

On this 05 day of December, 2015, before me appeared **Cheng Li** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Mark A James

Notary Public

Print Name: Mark A James

My Commission expires 02/22/2019

Date: 5-Dec-2015

Cheng Li

Inventor's Signature

Date:

Dec 7, 2015

Philip Shilane

Inventor's Signature

Print full name of second inventor:

Philip Shilane

Residence:

Newtown, PA

Citizenship:

United States of America

Mailing Address:

176 South Street

Hopkinton, MA 01748

STATE/Commonwealth of

COUNTY OF

Pennsylvania
Bucks

Then personally appeared before me the above-named Philip Shilane and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 7 day of

December, 2015.

Adina April Scariano

Notary Public

Print Name: Adina April Scariano

My Commission expires 8/10/2019

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
ADINA APRIL SCARIANO, NOTARY PUBLIC
NEWTON TWP, BUCKS COUNTY
MY COMMISSION EXPIRES AUG. 10, 2019

Date: Dec. 5, 2015

Grant Wallace
Inventor's Signature

Print full name of third inventor: **Grant Wallace**
Residence: **Pennington, NJ**
Citizenship: **United States of America**
Mailing Address: **176 South Street**
Hopkinton, MA 01748

STATE/Commonwealth of
COUNTY OF

New Jersey
Mercer

Then personally appeared before me the above-named **Grant Wallace** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 5th day of December, 2015.

Nicole Lewis

Notary Public

Print Name:

My Commission expires 2/3/2020

NICOLE LEWIS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Feb. 3, 2020



Date: Dec 7, 2015

Frederick Douglass
Inventor's Signature

Print full name of fourth inventor: **Frederick Douglass**
Residence: Basking Ridge, NJ
Citizenship: United States of America
Mailing Address: 176 South Street
Hopkinton, MA 01748

STATE/Commonwealth of NJ
COUNTY OF Somerset

Then personally appeared before me the above-named **Frederick Douglass** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 07-12 day of 2015.

Ahmed Jama
Notary Public

Print Name: Ahmed Jama

My Commission expires 11/9/2020

