

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Alexandr Veprinsky</td> <td>06/26/2013</td> </tr> <tr> <td>Xiali He</td> <td>06/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Alexandr Veprinsky	06/26/2013	Xiali He	06/26/2013				
Name	Execution Date										
Alexandr Veprinsky	06/26/2013										
Xiali He	06/26/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>EMC Corporation</td> </tr> <tr> <td>Street Address:</td> <td>176 South Street</td> </tr> <tr> <td>City:</td> <td>Hopkinton</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01748</td> </tr> </table>		Name:	EMC Corporation	Street Address:	176 South Street	City:	Hopkinton	State/Country:	MASSACHUSETTS	Postal Code:	01748
Name:	EMC Corporation										
Street Address:	176 South Street										
City:	Hopkinton										
State/Country:	MASSACHUSETTS										
Postal Code:	01748										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13926218</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13926218						
Property Type	Number										
Application Number:	13926218										
CORRESPONDENCE DATA											
Fax Number: 7814019966 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 7814019988 Email: sms@dc-m.com Correspondent Name: Daly, Crowley, Mofford & Durkee, LLP Address Line 1: 354 Turnpike Street Address Line 2: Suite 301A Address Line 4: Canton, MASSACHUSETTS 02021-2714											
ATTORNEY DOCKET NUMBER:	EMC-182PUS										
NAME OF SUBMITTER:	Anthony T. Moosey										
Signature:	/Anthony T. Moosey/										
Date:	07/23/2013										

CH \$40.00 13926218

Total Attachments: 4

source=TO_PTO_ASSIGN EMC_CORP#page1.tif

source=TO_PTO_ASSIGN EMC_CORP#page2.tif

source=TO_PTO_ASSIGN EMC_CORP#page3.tif

source=TO_PTO_ASSIGN EMC_CORP#page4.tif

ASSIGNMENT

WHEREAS, we, Alexandr Veprinsky and Xiali He, together with Saar Cohen, and Assaf Natanzon 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 STORAGE RECOVERY FROM TOTAL CACHE LOSS USING JOURNAL-BASED REPLICATION and identified as Attorney Docket No. EMC-182PUS, 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 June 25, 2013 as U.S. Application No. 13/926,218;

☐ 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 me;

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 that we have appointed and EMC Corporation 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: 6/26/2013

[Signature]
Inventor's Signature

Print full name of first inventor:

Alexandr Veprinsky

Residence:

145 Babcock Street
Brookline, MA 02446

Citizenship:

United States

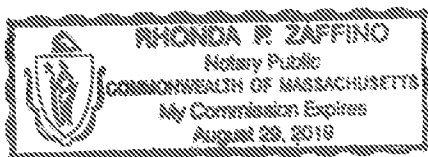
Mailing Address:

Same as above

STATE/Commonwealth of Massachusetts

COUNTY OF Middlesex

On this 26th day of June, 2013, then personally appeared before me the above-named Alexandr Veprinsky known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☒ personally known to me (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: Rhonda P. Zaffino

My Commission expires 08/29/2019

310681

Date: 06/26/2013

[Signature]
Investor's Signature

Print full name of first inventor:

Xiali He

Residence:

33 Howarth Drive
Upton, MA 01568

Citizenship:

United States

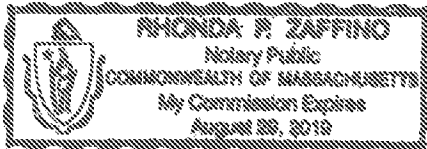
Mailing Address:

Same as above

STATE/Commonwealth of Massachusetts

COUNTY OF Middlesex

On this 26th day of June, 2013, then personally appeared before me the above-named Xiali He known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☒ personally known to me (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: Rhonda P Zaffino

My Commission expires 08/29/2019