

PATENT ASSIGNMENT

Electronic Version v1.1
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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>John M. Bent</td> <td>08/06/2013</td> </tr> <tr> <td>Sorin Faibish</td> <td>07/10/2013</td> </tr> <tr> <td>Uday Gupta</td> <td>07/18/2013</td> </tr> <tr> <td>James Pedone</td> <td>07/10/2013</td> </tr> <tr> <td>Tao Peng</td> <td>07/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	John M. Bent	08/06/2013	Sorin Faibish	07/10/2013	Uday Gupta	07/18/2013	James Pedone	07/10/2013	Tao Peng	07/18/2013
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John M. Bent	08/06/2013												
Sorin Faibish	07/10/2013												
Uday Gupta	07/18/2013												
James Pedone	07/10/2013												
Tao Peng	07/18/2013												
RECEIVING PARTY DATA													
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>13928985</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13928985								
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Application Number:	13928985												
CORRESPONDENCE DATA													
<p>Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 203-255-6560 Email: bab@rml-law.com Correspondent Name: Kevin M. Mason Address Line 1: 1300 Post Road Address Line 2: Ryan, Mason & Lewis, LLP Address Line 4: Fairfield, CONNECTICUT 06824</p>													
ATTORNEY DOCKET NUMBER:	4414-288												
NAME OF SUBMITTER:	Kevin M. Mason												

OP \$40.00 13928985

Signature:	/Kevin M. Mason/
Date:	08/23/2013
Total Attachments: 7 source=4414-288_Assignment#page1.tif source=4414-288_Assignment#page2.tif source=4414-288_Assignment#page3.tif source=4414-288_Assignment#page4.tif source=4414-288_Assignment#page5.tif source=4414-288_Assignment#page6.tif source=4414-288_Assignment#page7.tif	

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
John Bent, Sorin Faibish, Uday Gupta, James Pedone, Tao Peng
Additional name(s) of conveying party(ies) attached?
 Yes No

2. Name and address of receiving party(ies)

Name: EMC Corporation

Internal Address:

Street Address: 176 South Street

City: Hopkinton State: MA ZIP: 01748

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: 8/6/2013, 7/10/2013, 7/18/2013, 7/10/2013, 7/18/2013

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 13/928,985 Filed June 27, 2013 B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kevin M. Mason
Internal Address: Ryan, Mason & Lewis, LLP
Street Address: 1300 Post Road, Suite 205
City: Fairfield State: CT ZIP: 06824

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41)..... \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number 50-0762

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kevin M. Mason

/Kevin M. Mason/

August 23, 2013

Reg. No. 36,597

Signature

Date

Total number of pages including cover sheet, attachments, and document: 7

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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
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Washington, DC 20231

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ASSIGNMENT

WHEREAS, we, John M. Bent, Sorin Faibish, Uday Gupta, James Pedone and Tao Peng, 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 **CLUSTER FILE SYSTEM WITH A BURST BUFFER APPLIANCE FOR CONTROLLING MOVEMENT OF DATA AMONG STORAGE TIERS**, 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 27, 2013 as U.S. Application No. 13/928,985;
- 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;

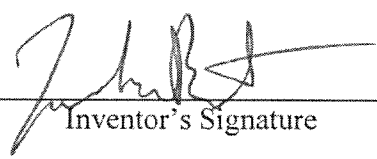
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

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: 8/6/13


Inventor's Signature

Print full name of first inventor: John M. Bent
Residence: Los Alamos, New Mexico
Citizenship: United States of America
Mailing Address: 1902 Camino Durasnilla
Los Alamos, New Mexico 87544

STATE/Commonwealth of NM
COUNTY OF Los Alamos

On this 6 day of 8, 20 13, then personally appeared before me the above-named John M. Bent 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.


Notary Public

Print Name: R LYNN STRAUSS
My Commission expires 3/1/2017

Date: 7/10/2013

Faibish
Inventor's Signature

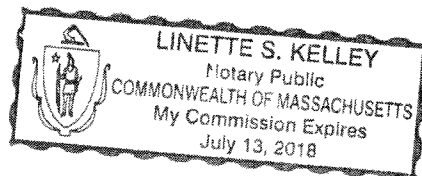
Print full name of second inventor: Sorin Faibish
Residence: Newton, Massachusetts
Citizenship: United States of America
Mailing Address: 11 Selwyn Road
Newton, Massachusetts 02461

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 10th day of July, 2013, then personally appeared before me the above-named Sorin Faibish 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.

Linette S. Kelley
Notary Public

Print Name: Linette S. Kelley
My Commission expires 07/13/2016



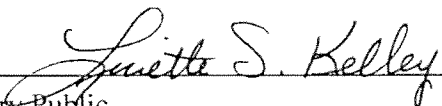
Date: 7/18/2-13


Inventor's Signature

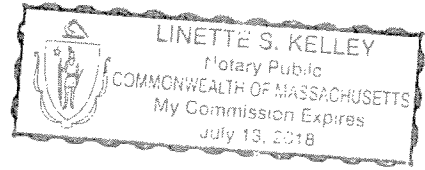
Print full name of third inventor: Uday Gupta
Residence: Westford, Massachusetts
Citizenship: India
Mailing Address: 5 Indigo Lane
Westford, MA 01886

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 18th day of July, 2013, then personally appeared before me the above-named Uday Gupta 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.


Notary Public

Print Name: Linette S. Kelley
My Commission expires 07/18/2018



Date: 7/10/13

James M. Pedone
Inventor's Signature

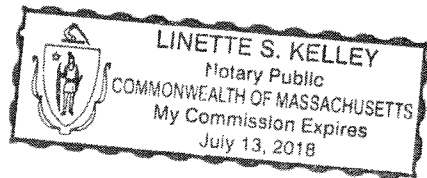
Print full name of second inventor: James Pedone
Residence: West Boylston, Massachusetts
Citizenship: United States of America
Mailing Address: 1 Pheasant Hill Run
West Boylston, Massachusetts 01583

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 10th day of July, 20 13, then personally appeared before me the above-named James Pedone 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.

Linette S. Kelley
Notary Public

Print Name: Linette S. Kelley
My Commission expires 07/13/2018



Date: July. 18. 2013

Peng Tao
Inventor's Signature

Print full name of second inventor:

Tao Peng

Residence:

Beijing, China

Citizenship:

People's Republic of China

Mailing Address:

6201 9th Building Wushengxili

Chaoyang District, Beijing, CHINA

Liu Xuezhao
Witness

Tang Haiying
Witness