

Form PTO-1595 (Rev. 07/05)

OMB No. 0651-0027 (exp. 6/30/2008)

EMC-05-346

# RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patents and Trademarks Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**  
Saurabh M. Pathak, David Haase, Michael D. Haynes,  
Somnath A. Gulve, and Dennis Duprey

Additional name(s) of conveying party(ies) attached?  Yes  No

**3. Nature of Conveyance/Execution Date(s):**

Execution Date: March 26, 2007

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmation License
- Other \_\_\_\_\_

**2. Name and address of receiving party(ies):**

Name: EMC Corporation

Internal Address: Office of the General Counsel

Street Address: 176 South Street

City: Hopkinton

State: Massachusetts

Country: USA Zip: 01748

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

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

This document is being filed together with a new application.

A. Patent Application No.(s) 11/324,461

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: Robert Kevin Perkins

Internal Address: EMC Corporation

Office of the General Counsel

Street Address: 176 South Street

City: Hopkinton State: MA Zip: 01748

Phone Number: 508-293-6985

Fax Number: 508-293-7189

Email Address: perkins\_rkevin@emc.com

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41): \$ 40.00**

- Authorized to be charge by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit account number 05-0889

Authorized User Name Robert Kevin Perkins

**9. Signature:** Robert Kevin Perkins  
Signature

April 5, 2007  
Date

Robert Kevin Perkins, Reg. No. 36,634

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: [ ]

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop: Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria VA 22313-1450

CH \$40.00 050889 11324161

PATENT/Joint Assignment  
EMC Docket No.: EMC-05-346

ASSIGNMENT

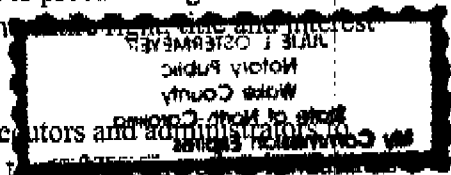
WHEREAS, we, Saurabh M. Pathak, David Haase, Michael D. Haynes, Somnath A. Gulve, and Dennis Duprey have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled SYSTEM AND METHOD FOR HANDLING DEVICE OBJECTS IN A DATA STORAGE ENVIRONMENT FOR MAINTAINING CONSISTENCY DURING DATA REPLICATION, 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 January 3, 2006 as U.S. Application No. 11/324,461;
- 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 do all things which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its



PATENT/Joint Assignment  
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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: 3/26/2007

[Signature]  
Inventor's Signature

Print full name of first inventor:

Saurabh M. Pathak

Residence:

1501 Mason Farm Road, Apt. 115, Chapel Hill,  
NC 27514

Citizenship:

India

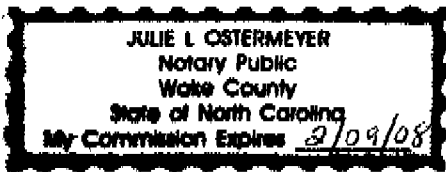
Mailing Address:

Same as above

STATE/Commonwealth of NORTH CAROLINA  
COUNTY OF DURHAM

On this 26<sup>TH</sup> day of MARCH, 2007, then personally appeared before me the above-named Saurabh M. Pathak known to me through satisfactory evidence of identification  employee identification card;  driver's license;  (other)

Saurabh M. Pathak 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: JULIE L. OSTERMEYER

My Commission expires 02/09/2008

**PATENT/Joint Assignment  
EMC Docket No.: EMC-05-346**

Date: 3/26/2007

  
Inventor's Signature

Print full name of second inventor:

**David Haase**

Residence:

904 Cedar Point Court, Fuquay Varina, NC  
27526

Citizenship:

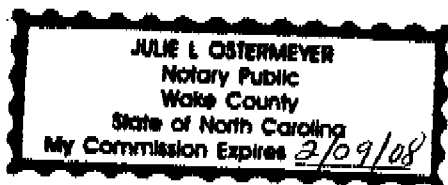
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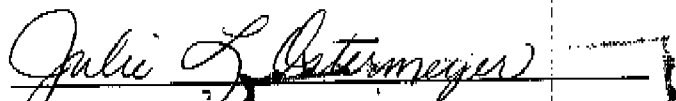
Mailing Address:

Same as above

STATE/Commonwealth of NORTH CAROLINA  
COUNTY OF DURHAM

On this 26th day of MARCH, 2007, then personally appeared before me the above-named David Haase 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: JULIE L. OSTERMEYER  
My Commission expires 2/09/2008

PATENT/Joint Assignment  
EMC Docket No.: EMC-05-346

Date: March 26, 2007

Michael D. Haynes  
Inventor's Signature

Print full name of third inventor:

Michael D. Haynes

Residence:

8513 Wood Lawn Drive, Raleigh, NC 27613

Citizenship:

USA

Mailing Address:

Same as above

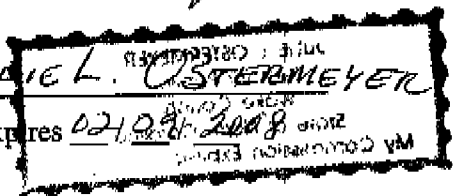
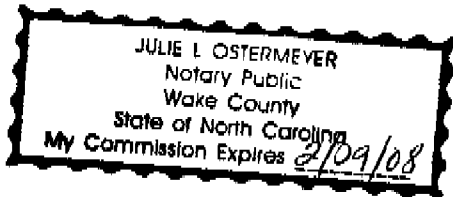
STATE/Commonwealth of NORTH CAROLINA  
COUNTY OF DURHAM

On this 26th day of MARCH, 2007, then personally appeared before me the above-named Michael D. Haynes 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.

Julie L. Ostermeyer  
Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2008



PATENT/Joint Assignment  
EMC Docket No.: EMC-05-346

Date: 3/26/2007

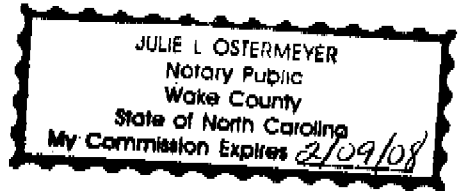
[Signature]  
Inventor's Signature

Print full name of fourth inventor: **Somnath A. Gulve**  
Residence: 2224 Glengate Circle, Morrisville, NC 27560  
Citizenship: India  
Mailing Address: Same as above

STATE/Commonwealth of NORTH CAROLINA  
COUNTY OF DURHAM

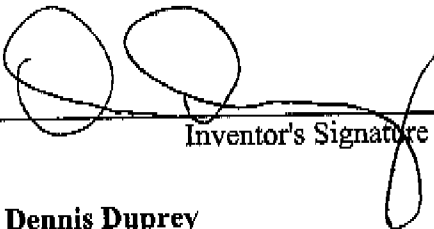
On this 26th day of MARCH, 2007, then personally appeared before me the above-named Somnath A. Gulve known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) \_\_\_\_\_ to be the person whose name is subscribed to the foregoing Assignment 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: JULIE L. OSTERMEYER  
My Commission expires 02/09/2008



PATENT/Joint Assignment  
EMC Docket No.: EMC-05-346

Date: 3/26/07

  
Inventor's Signature

Print full name of fifth inventor:

**Dennis Duprey**

Residence:

100 Tibury Court, Raleigh, NC 27615

Citizenship:

USA

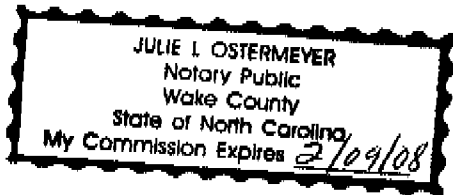
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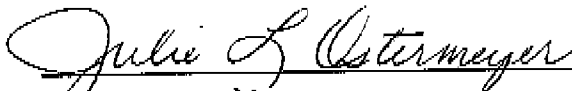
Same as above

STATE/Commonwealth of NORTH CAROLINA  
COUNTY OF DURHAM

On this 26th day of MARCH, 2007, then personally appeared before me the above-named Dennis Duprey known to me through satisfactory evidence of identification  employee identification card;  driver's license;  (other)

Dennis Duprey 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: JULIE L. OSTERMEYER

My Commission expires 02/09/2008  
