



04-20-2004

EMC-03-102

R



HEET

Y

4/15/04

102725472

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

1. Name of conveying party(ies):

David Haase, Somnath Gulve, Michael D. Haynes and
Dennis DupreyAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Name: EMC Corporation

Internal Address: _____

3. Nature of Conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ Other _____Execution Date: March 22, 2004Street Address: 176 South StreetCity: Hopkinton State: MA Zip: 01748Additional name(s) and address(es) attached? ☐ Yes ☒ No

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: 09/29/03A. Patent Application No.(s) 10/673,864

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom
correspondence concerning document should be mailed:Name: Robert Kevin Perkins, Esq.Internal Address: EMC CorporationOffice of the General CounselStreet Address: 176 South StreetCity: Hopkinton State: MA Zip: 017486. Total number of applications and patents involved: [1]7. Total fee (37 CFR 3.41): \$40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 05-0889

(Attach duplicate of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Signature.

Robert Kevin Perkins (Reg. No. 36,634)

Name of Person Signing

Robert Kevin Perkins
SignatureApril 13, 2004
DateTotal number of pages comprising cover sheet: ☐

04/19/2004 ECDOPER 00000118 050889 10673864

01 FC:8021

40.00 DA

PATENT
REEL: 015221 FRAME: 0550

ASSIGNMENT

WHEREAS, we, David Haase of Fuquay Varina, North Carolina, Somnath Gulve of Morrisville, North Carolina, Michael D. Haynes of Raleigh, North Carolina, and Dennis Duprey of Raleigh, North Carolina, 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 MANAGING DATA ASSOCIATED WITH COPYING AND REPLICATION PROCEDURES IN A DATA STORAGE ENVIRONMENT, 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 September 29, 2003 as U.S. Application No. 10,673,864;
- ☐ 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

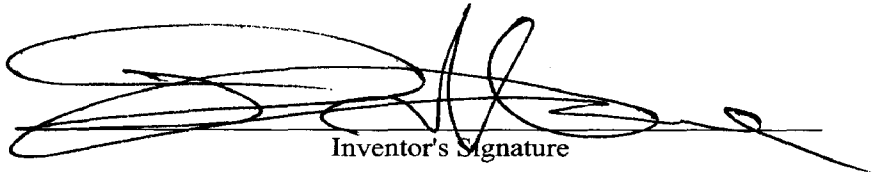
successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony 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:

3/22/04



Inventor's Signature

Print full name of first inventor:

David Haase

Residence:

904 Cedar Point Ct, Fuquay Varina, North Carolina 27526

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of NORTH CAROLINA
COUNTY OF DURHAM

Then personally appeared before me the above-named David Haase and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.



Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2008

Date: 3/22/04


Inventor's Signature

Print full name of second inventor:

Somnath Gulve

Residence:

2224 Glengate Circle, Morrisville, North Carolina 27560

Citizenship:

India

Mailing Address:

Same as above

STATE/Commonwealth of NORTH CAROLINA
COUNTY OF DURHAM

Then personally appeared before me the above-named Somnath Gulve and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.



Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2008

3/22/04

Michael D. Haynes
Inventor's Signature

Print full name of third inventor:

Michael D. Haynes

Residence:

8513 Wood Lawn Drive, Raleigh, North Carolina 27613

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of

NORTH CAROLINA

COUNTY OF

DURHAM

Then personally appeared before me the above-named Michael D. Haynes and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.

Julie L. Ostermeyer

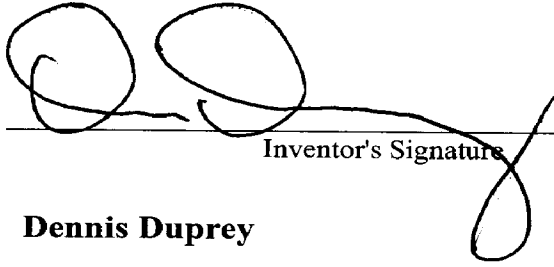
Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2008

Date:

3/22/04



Inventor's Signature

Print full name of fourth inventor:

Dennis Duprey

Residence:

100 Tidbury Court, Raleigh, North Carolina 27615

Citizenship:

USA

Mailing Address:

Same as above

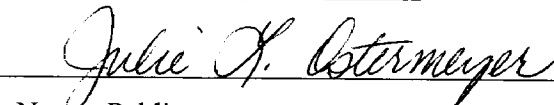
STATE/Commonwealth of

NORTH CAROLINA

COUNTY OF

DURHAM

Then personally appeared before me the above-named Dennis Duprey and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.



Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2008