

Form PTO-1595 (Rev. 06/04)

09-27-2005

EMC-02-119CIP1

RECOF



103089261

9/23/05

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)/Execution Date(s):

Fernando Oliveira, Bradford B. Glade, Jeffrey A. Brown,
Peter J. McCann, David Harvey, James A. Wentworth, III,
Walter M. Caritj, Matthew Waxman, Lee W. VanTine

Execution Date: June 23, 2004, June 25, 2004,
July 22, 2004, July 23, 2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of Conveyance:**

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

☐ Government Interest Assignment☐ Executive Order 9424, Confirmation License

☒ Other: Corrected Recordation Form Cover
Sheet to correct the spelling of Fernando Oliveira's
name. The original Assignment was recorded on
August 11, 2004 at Reel/Frame 015672/0390.

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

Internal Address: _____

Street Address: 176 South StreetCity: HopkintonState: MassachusettsCountry: USA Zip: 01748Additional 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) 10/810,988

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**Name: Robert Kevin PerkinsInternal Address: EMC CorporationOffice of the General CounselStreet Address: 176 South StreetCity: Hopkinton State: MA Zip: 01748Phone Number: (508) 293-6985Fax Number: (508) 293-7189Email Address: Perkins_RKevin@emc.com**6. Total number of applications and patents involved:**☒ 17. Total fee (37 CFR 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 05-0889Authorized User Name Robert Kevin Perkins**9. Signature:**Robert Kevin Perkins

Signature

September 21, 2005

Date

Robert Kevin Perkins, Reg. No. 36,634

Name of Person Signing

Total number of pages including cover
sheet, attachments, and documents: ☐ 1

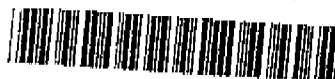
Form PTO-1595 (Rev. 06/04)

00-10-2004

EMC-02-119CIP1

8/11/04

REC



102814335

ET

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)/Execution Date(s):
 Fernando Olivera, Bradford B. Glade, Jeffrey A. Brown, Peter J. McCann, David Harvey, James A. Wentworth, III, Walter M. Caritj, Matthew Waxman, Lee W. VanTine

Execution Date: June 23, 2004, June 25, 2004,
 July 22, 2004, July 23, 2004

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

3. Nature of Conveyance:

- ☒ 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: _____

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) 10/810,988

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party 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 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 K. Perkins

Signature

August 9, 2004

Date

Robert Kevin Perkins

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 (703) 306-5995, or mailed to:
 Mail Stop: Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria VA 22313-1450

3/2004 LNUELLER 00000158 050889 10810988

3:8021

40.00 DA

PATENT
REEL: 017210 FRAME: 0839

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1

ASSIGNMENT

WHEREAS, we, Fernando Oliveira, Bradford B. Glade, Jeffrey A. Brown, Peter J. McCann, David Harvey, James A. Wentworth, III, Walter M. Caritj, Matthew Waxman and Lee W. VanTine 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 STORAGE NETWORKS AND PROVIDING VIRTUALIZATION OF RESOURCES IN SUCH A NETWORK, 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 March 26, 2004 as U.S. Application No. 10/810,988;
- ☐ 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

PATENT
REEL: 017210 FRAME: 0840

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1

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:

6/23/04

Fernando Oliveira
Inventor's Signature

Print full name of first inventor:

Fernando Oliveira

Residence:

72 River Ridge, Sudbury, MA 01776

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of

Massachusetts

COUNTY OF

Norfolk

On this 23rd day of June, 2004, then personally appeared before me the above-named Fernando Oliveira known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other)

Fernando Oliveira 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.

Linda M. DeLuca
Notary Public

Print Name: Linda M. DeLucaMy Commission expires 2/18/2011

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1Date: 6/23/04
Inventor's Signature

Print full name of second inventor:

Bradford B. Glade

Residence:

109 East Bare Hill Road, Harvard, MA 01451

Citizenship:

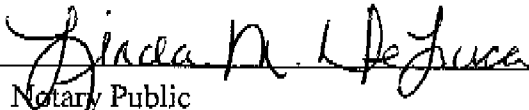
USA

Mailing Address:

Same as above

STATE/COMMONWEALTH OF Massachusetts
COUNTY OF Norfolk

On this 23rd day of June, 2004, then personally appeared before me the above-named Bradford B. Glade known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other) Bradford B. Glade 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 PublicPrint Name: Linda M. DeLucaMy Commission expires 2/18/2011

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1Date: 7/22/04Jeffrey A. Brown
Inventor's Signature

Print full name of third inventor:

Jeffrey A. Brown

Residence:

3 Birch Brush Road, Shrewsbury, MA 01545

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OFMassachusetts
Starcaster

On this 22nd day of July, 2004, then personally appeared before me the above-named Jeffrey A. Brown 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.

Nancy J. Forrister
Notary PublicPrint Name: Nancy J. ForristerMy Commission expires 03/07/2008

NANCY J. FORRISTER

Notary Public

My Commission Expires
March 7, 2008

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1Date: 7/22/04Peter J. McCann

Inventor's Signature

Print full name of fourth inventor:

Peter J. McCann

Residence:

590 Valley Road, Mapson, NH 03048

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OFMassachusetts
Hampshire

On this 22nd day of July, 2004, then personally appeared before me the
above-named Peter J. McCann 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.

Nancy J. Forrister
Notary PublicPrint Name: Nancy J. ForristerMy Commission expires 03/07/2008NANCY J. FORRISTER
Notary Public
My Commission Expires
March 7, 2008

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1

Date: 7-23-2004

[Signature]
Inventor's Signature

Print full name of fifth inventor: **David Harvey**
Residence: 36 Pine Crest Road, Newton, MA 02459
Citizenship: USA
Mailing Address: Same as above

STATE/Commonwealth of
COUNTY OF

Massachusetts
Worcester

On this 23rd day of July, 2004, then personally appeared before me the above-named David Harvey 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: Nancy J. Forrister
My Commission expires 03/07/2008

NANCY J. FORRISTER
Notary Public
My Commission Expires
March 7, 2008

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1

Date:

6/23/2014
Inventor's Signature

Print full name of sixth inventor:

James A. Wentworth, III

Residence:

10 Leblanc Road, Shrewsbury, MA 01545

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

Massachusetts
Norfolk

On this 23rd day of June, 2004, then personally appeared before me the above-named James A. Wentworth, III known to me through satisfactory evidence of identification [☒] employee identification card; [☐] driver's license; [☐] (other) James A. Wentworth III 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 PublicPrint Name: Linda M. DeLucaMy Commission expires 2/18/2011

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1

Date:

6/23/2004Walter M. Cariti

Inventor's Signature

Print full name of seventh inventor:

Walter M. Cariti

Residence:

32 R Hill Road, Medway, MA 02053

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

Massachusetts
Norfolk

On this 23rd day of June, 2004, then personally appeared before me the above-named Walter M. Cariti known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other) Walter M. Cariti 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.

Linda M. DeLuca
Notary Public

Print Name: Linda M. DeLucaMy Commission expires 2/18/2011

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1

Date:

6/25/04

Inventor's Signature

Print full name of eighth inventor:

Matthew Waxman

Residence:

1405 Beacon Street, Apt. 1, Brookline, MA 02446

Citizenship:

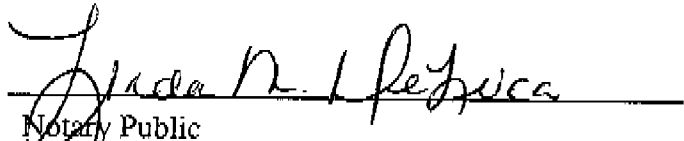
Canada

Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OFMassachusetts
Norfolk

On this 25th day of June, 2004, then personally appeared before me the above-named Matthew Waxman known to me through satisfactory evidence of identification [☒] employee identification card; [☐] driver's license; [☐] (other) Matthew Waxman 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: Linda M. DeLucaMy Commission expires 6/18 / 2011

PATENT/Joint Assignment
EMC Docket No.: EMC-02-119CIP1

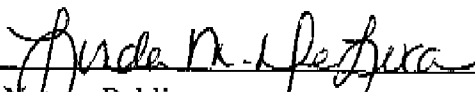
Date: 6-23-2004


Inventor's Signature

Print full name of ninth inventor: **Lee W. VanTine**
Residence: 7 Tower Hill Road, Oxford, MA 01540
Citizenship: USA
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Norfolk

On this 23rd day of June, 2004, then personally appeared before me the
above-named Lee W. VanTine known to me through satisfactory evidence of identification
☒ employee identification card; ☐ driver's license; ☐ (other)
Lee W. VanTine 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: Linda M. DeLuca
My Commission expires 2 / 18 / 2011