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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Docket No.: EMS-08202

OFFICE OF PUBL

102895330

## 1. Name of conveying party(ies):

Brett A. Quinn

Additional name(s) of conveying party(ies) attached? Yes \_\_\_ No ☒ X

2004 DEC -2 PM 3:04

FINANCE SECTION

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

Name: EMC Corporation

Internal Address: \_\_\_\_\_

Street Address: 176 South StreetHopkinton, Massachusetts 01748

## 3. Nature of conveyance:

- (X) Assignment ( ) Merger  
( ) Security Agreement ( ) Change of Name  
( ) Other:

Execution Date: November 1, 2004

Additional name(s) & address(es) attached? Yes \_\_\_ No ☒ X

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

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

A. Patent Application No.(s) 10/955,142

B. Patent No.(s)

Additional numbers attached? Yes \_\_\_ No ☒ X

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

Name: Patent GroupInternal Address: Choate, Hall & StewartStreet Address: Exchange Place, 53 State StreetCity: Boston State: MA ZIP: 02109-28046. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$40.00

(X) Enclosed

\_\_\_ Authorized to be charged to deposit account

## 8. Deposit account number:

(Attached duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 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.*Donald W. Muirhead; 33,978

Name of Person Signing

Signature

November 30, 2004

Date

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required covered sheet information to:  
Director of the U.S. Patent & Trademark Office, Mail Stop Assignment Recordation Services  
P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT  
REEL: 016032 FRAME: 0237

**ASSIGNMENT**

**WHEREAS**, we, Douglas E. LeCrone, Brett A. Quinn, and Gary H. Cox 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 ***HOST IMPLEMENTATION OF TRIANGULAR ASYNCHRONOUS 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 September 30, 2004 as U.S. Application No. 10/955,142;
- ☐ 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: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature

Print full name of first inventor:

**Douglas E. LeCrone**

Residence:

5 Forest Lane

Hopkinton, MA 01748

Citizenship:

USA

Mailing Address:

Same

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, then personally appeared before me the above-named Douglas E. LeCrone 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: \_\_\_\_\_

My Commission expires \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Date: 11-1-04

  
Inventor's Signature

Print full name of third inventor:

**Brett A. Quinn**

Residence:

19 DuCarl Drive  
Lincoln, RI 02865

Citizenship:

USA

Mailing Address:

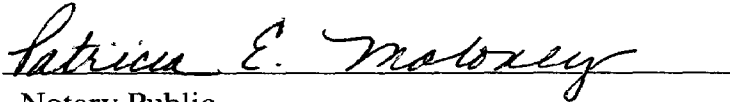
Same

STATE/Commonwealth of  
COUNTY OF

Massachusetts  
Middlesex

On this 1st day of November, 2004, then personally appeared before me the above-named Brett A. Quinn known to me through satisfactory evidence of identification [☐] employee identification card; [☒] driver's license; [☐] (other)

Brett Quinn 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: PATRICIA E. MALONEY

My Commission expires 03/24/2011



PATRICIA ELIZABETH MALONEY  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
March 24, 2011

Date: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature

Print full name of second inventor:

**Gary H. Cox**

Residence:

3 Monterey Drive

Franklin, MA 02038

Citizenship:

USA

Mailing Address:

Same

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, then personally appeared before me the above-named Gary H. Cox 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: \_\_\_\_\_

My Commission expires \_\_\_\_ / \_\_\_\_ / \_\_\_\_