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

9.28.06

**1. Name of conveying party(ies)**

Vitaly Rozenman  
Benjamin Bushoy  
Dmitry Gritsay

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

Country: United States Zip: 01748

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

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

Execution Date(s) September 27, 2006

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

112949 U.S. PTO  
11/529038  
092806

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

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Barry W. Chapin, Esq.

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

Street Address: Westborough Office Park

1700 West Park Drive

City: Westborough

State: MA Zip: 01581

Phone Number: 508-616-9660

Fax Number: 508-616-9661

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: 1**

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

- Authorized to be charged 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  
10/02/2006 YPOLITE1 00000000 11529038  
Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

September 28, 2006

Date

Christopher J. Lutz, Esq.  
Name of Person Signing

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

5

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, V.A. 22313-1450

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02:49:29 p.m. 09-27-2006

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**PATENT/Joint Assignment**  
**Attorney Docket No.: EMC06-34(06262)**  
**EMC Docket No.: EMC-06-262**  
**Express Mail Mailing Label No. EV 832 578 344 US**

**ASSIGNMENT**

**WHEREAS**, we, Vitaly Rozenman, Benjamin Bushoy and Dmitry Gritsay 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 **METHODS AND APPARATUS FOR REPRESENTING AND QUERYING STORAGE AREA NETWORK (SAN) TOPOLOGY**, 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 \_\_\_\_\_ as U.S. Application No. \_\_\_\_\_;
- 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

**PATENT/Joint Assignment**  
**Attorney Docket No.: EMC06-34(06262)**  
**EMC Docket No.: EMC-06-262**

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: 09/27/06

[Signature]  
Inventor's Signature

Print full name of first inventor: Vitaly Rozenman  
Residence: 8 Hill Street, Shrewsbury, MA 01545  
Citizenship: Israel  
Mailing Address: Same as above

STATE/Commonwealth OF Massachusetts  
COUNTY OF Norfolk

On this 27<sup>th</sup> day of September, 2006, then personally appeared before me the above-named Vitaly Rozenman 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: Linda M. DeLuca  
My Commission expires 2/18/2011

LINDA M. DeLUCA  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
FEBRUARY 18, 2011

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**PATENT/Joint Assignment**  
Attorney Docket No.: EMC06-34(06262)  
EMC Docket No.: EMC-06-262

Date: 9/27/06

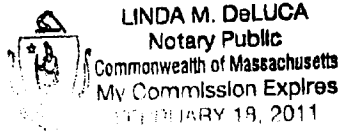
[Signature]  
Inventor's Signature

Print full name of second inventor: Benjamin Bushoy  
Residence: 21 Clifton Road, Newton MA 02459  
Citizenship: Israel  
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts  
COUNTY OF Norfolk

On this 27<sup>th</sup> day of September, 2006, then personally appeared before me the above-named Benjamin Bushoy 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: Linda M. DeLuca  
My Commission expires 2/18/2011



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**PATENT/Joint Assignment**  
Attorney Docket No.: EMC06-34(06262)  
EMC Docket No.: EMC-06-262

Date: 09/27/06

[Signature]  
Inventor's Signature

Print full name of third inventor: **Dmitry Gritsay**  
Residence: **81 Liberty Square Road, Apt. 14B  
Boxborough, MA 01719**  
Citizenship: **Russia**  
Mailing Address: **Same as above**

STATE/Commonwealth of Massachusetts  
COUNTY OF Norfolk

On this 27<sup>th</sup> day of September, 2006, then personally appeared before me the above-named Dmitry Gritsay known to me through satisfactory evidence of identification [ ] employee identification card; [X] 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: Linda M. DeLuca  
My Commission expires 2/18/2011



LINDA M. DeLUCA  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
FEBRUARY 18, 2011