

RECEIVED 09-30-1999 SHEET

FORM PTO-1595 U.S.
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)



101158847

DEPARTMENT OF COMMERCE
Patent and Trademark Office

9-27-99

To the : Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Steven M. Blumenau, Erez Ofer, John T. Fitzgerald, James M. McGillis, Mark C. Lippitt and Natan Vishlitzky</p> <p>Additional name(s) of conveying party(ies) attached? [] Yes [x] No</p> <p>3. Nature of conveyance: [x] Substitute Assignment to reflect the correct title of the application. Previously recorded assignment was recorded on September 1, 1998 at Reel 9434, Frame 0172.</p> <p>Execution Date: 07/19/99, 07/23/99, 08/09/99, 09/03/99</p>	<p>2. Name and address of receiving party(ies) Name: EMC Corporation Internal Address: Street Address: 171 South Street Hopkinton, MA 01748 Additional name(s) & addresses(es) attached? [] Yes [x] No</p>
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4. Application number or patent number:
A. Patent Application No.: 09/107,618
Additional numbers attached: [] Yes [X] No

<p>5. Name and address of party to whom correspondence Concerning document should be mailed: Name: Robert A. Skrivanek, Jr. Address: WOLF, GREENFIELD & SACKS, P.C. Federal Reserve Plaza 600 Atlantic Avenue Boston, MA 02210</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$ 40.00 [x] Enclosed [x] Authorized to be charged to deposit account if the enclosed fee is insufficient. The Commissioner is authorized to charge:</p> <p>8. Deposit Account No: 23/2825</p>
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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.

Robert A. Skrivanek, Jr.		September 23, 1999
Name of Person Signing	Signature	Date

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

Mail documents to be recorded with required cover sheet information to:
Box Assignment, Assistant Commissioner of Patents,
Washington, D.C. 20231

09/29/1999 NTHA11 00000231 09107618
01 FC:581 40.00 OP
406567.1

ASSIGNMENT

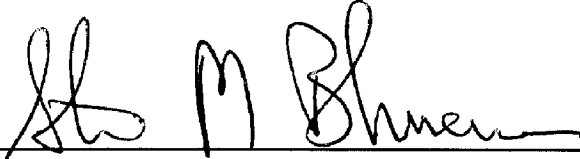
In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Steven M. Blumenau, 170 Holly Lane, Holliston, Massachusetts 01746; Erez Ofer, 1530 Beacon Street, Apt. 501, Brookline, Massachusetts 02146; John T. Fitzgerald, 3 Mayflower Drive, Mansfield, Massachusetts 02048; James M. McGillis, 80 Charles River Drive, Franklin, Massachusetts 02038; Mark C. Lippitt, 6 Edward Dunn Way, Westboro, Massachusetts 01581; and Natan Vishlitzsky, 4 Alton Court, Unit #1, Brookline, Massachusetts 02146 hereby

Sell, assign and transfer to EMC Corporation, a Massachusetts corporation having a place of business at 171 South Street, Hopkinton, Massachusetts 01748, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on June 30, 1998 under Serial No. 09/107,618 and entitled **METHOD AND APPARATUS FOR PROVIDING DATA MANAGEMENT FOR A STORAGE SYSTEM COUPLED TO A NETWORK**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

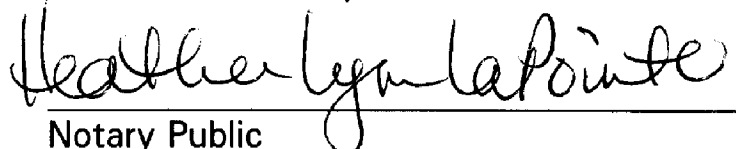
Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

Dated: 9/3/99 
Steven M. Blumenau

STATE OF Massachusetts :
COUNTY OF Middlesex :

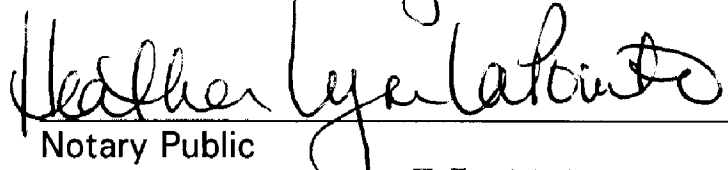
Subscribed and sworn to before me this 3rd day of September 99.

SEAL 
Notary Public
My Commission Expires: My Commission Expires April 21, 2000

Dated: 7/23/1999 
Erez Ofer

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 23rd day of July 1999.

SEAL 
Notary Public
My Commission Expires: My Commission Expires April 21, 2

Dated: 7/19/99

John T. Fitzgerald
John T. Fitzgerald

STATE OF Massachusetts :

COUNTY OF Middlesex :

Subscribed and sworn to before me this 19th day of July 1999.

SEAL

Heather Lafonte
Notary Public
My Commission Expires April 21, 2000
My Commission Expires: _____

Dated: 7/19/99

James M. McGillis
James M. McGillis

STATE OF Massachusetts :

COUNTY OF Middlesex :

Subscribed and sworn to before me this 19th day of July 1999.

SEAL

Heather Lynn Lafonte
Notary Public
My Commission Expires April 21, 20
My Commission Expires: _____

Dated: 7/23/99 Mark C. Lippitt
Mark C. Lippitt

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 23rd day of July 1999.

SEAL Heather Lynn Labonte
Notary Public
My Commission Expires April 21, 2000
My Commission Expires: _____

Dated: 8/9/99 Natan Vishlitzsky
Natan Vishlitzsky

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 9th day of August 1999.

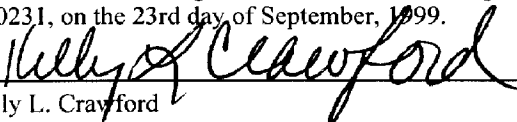
SEAL Heather Lynn Labonte
Notary Public
My Commission Expires April 21, 2000
My Commission Expires: _____

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Steven M. Blumenau, et al.
 Serial No: 09/107,618
 Filed: June 30, 1998
 For: METHOD AND APPARATUS FOR OBTAINING DATA MANAGEMENT FOR A STORAGE SYSTEM COUPLED TO A NETWORK
 Examiner: not yet assigned
 Art Unit: 2771

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document and the listed enclosures are being placed in the United States mail with first-class postage attached, addressed to: U.S. Patent and Trademark Office, Assignment Division, Box Assignments, CG-4, 1213 Jefferson Davis Highway, Suite 320, Washington, D.C. 20231, on the 23rd day of September, 1999.


 Kelly L. Crawford

U.S. Patent and Trademark Office, Assignment Division
 Box Assignments, CG-4
 1213 Jefferson Davis Highway, Suite 320
 Washington, D.C. 20231

Sir:

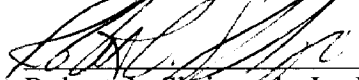
Transmitted herewith are the following documents:

- Assignment Recordation Form Cover Sheet (Form PTO-1595)
- Substitute Assignment of the Invention to EMC Corporation from Steven M. Blumenau, et al. to reflect the correct title of the application
- Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617)720-3500, Boston, Massachusetts.

A check in the amount of \$40.00 is enclosed. If the fee is insufficient, the balance may be charged to the account of the undersigned, Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully Submitted,



Robert A. Skrivaneck, Jr., Reg. No. 41,316
 Wolf, Greenfield & Sacks, P.C.
 600 Atlantic Avenue
 Boston, MA 02210-2211
 (617)720-3500

Docket No. E0295/7066
 September 23, 1999
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