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U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



HEET

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To the Director of the U.S. Patent and Trademark Office

103414246

Transmit the following documents or the new address(es) below.

1. Name of conveying party(ies):

Philippe Armangau (05/22/2007), Michael Kilian (05/24/2007), and Stephen J. Todd (05/21/2007)

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: Massachusetts

Country: United States of America Zip: 01748

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

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

Execution Date(s): in parentheses after inventor name

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

05/30/2007 H/E333 00000013 11807133

04 FC:8021 40.00 OP

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Richard F. Giunta
WOLF, GREENFIELD & SACKS, P.C.

Internal Address: _____

Street Address: Federal Reserve Plaza
600 Atlantic Avenue

City: Boston

State: MA Zip: 02210-2206

Phone Number: (617) 646-8000

Fax Number: (617) 646-8646

Email Address: rgiunta@wolfgreenfield.com

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 _____
Authorized User Name _____

9. Signature:

Scott J. Gerwin
Signature

May 25, 2007
Date

Scott J. Gerwin - 57,866
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

Express Mail Label No. EV 493 496 400 US Dated: May 25, 2007

ASSIGNMENT

WHEREAS, we, Philippe Armangau, Michael Kilian, and Stephen J. Todd 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 **STORING DELETED DATA IN A FILE SYSTEM SNAPSHOT**, the specification of which:

is being executed on even date herewith and is about to be filed in the United States Patent Office;

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: 5/22/07



Inventor's Signature

Print full name of third inventor:

Philippe Armangau

Residence:

51 Seminole Road, Acton, MA 01720

Citizenship:

France


Mailing Address:

51 Seminole Road, Acton, MA 01720

STATE/Commonwealth of Massachusetts :

COUNTY OF Middlesex :

Sworn to and subscribed before me on this 22 day of May, 2007 under the pains and penalties of perjury under the laws of the United States of America.

SEAL 
Notary Public

My commission expires May 17, 2013



HARRIET L. PLACE
Notary Public
Commonwealth of Massachusetts
My Commission Expires
May 17, 2013

5/24/07
Date

Michael Kilian
Inventor: **Michael Kilian**

Address: 25 Candleberry Lane, Harvard, MA 01451

Citizenship: United States

STATE/Commonwealth of Massachusetts :

COUNTY OF Middlesex :

Sworn to and subscribed before me on this 24 day of May, 2007 under the pains and penalties of perjury under the laws of the United States of America.

SEAL Harriet L. Place
Notary Public

My commission expires May 17, 2013



HARRIET L. PLACE
Notary Public
Commonwealth of Massachusetts
My Commission Expires
May 17, 2013

Date: 5/21/2007

Stephen J Todd
Inventor's Signature

Print full name of first inventor:

Stephen J. Todd

Residence:

36 Thomas Farm Circle, Shrewsbury, MA 01545

Citizenship:

USA

Mailing Address:

36 Thomas Farm Circle, Shrewsbury, MA 01545

STATE/Commonwealth of Massachusetts :

COUNTY OF Middlesex :

Sworn to and subscribed before me on this 21 day of May, 2007 under the pains and penalties of perjury under the laws of the United States of America.

SEAL Kristina A. White
Notary Public

My commission expires 8/25/2011



KRISTINA A. WHITE
Notary Public
Commonwealth of Massachusetts
My Commission Expires
August 25, 2011