

Docket No.: 16192.11

FORM PTO-1585 (Modified)
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
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RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Dianne C. Thompson **June 29, 2005**
Carolina P. Uhlmann **August 1, 2005**
Janet L. Schneider **June 29, 2005**
Eric A. Herrmann **June 29, 2005**

Additional names(s) of conveying party(ies) Yes No

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

Name: EMC Corporation

Address: 176 South Street

City: Hopkinton State/Prov.: MA

Country: USA ZIP: 01748

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

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: June 29, 2005/August 1, 2005

4. Application number(s) or registration numbers(s):

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

Patent Application No.	Filing date	B. Patent No.(s)
11/170,015	June 29, 2005	

Additional numbers Yes No

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

Name: R. Burns Israelsen

Registration No. 42,685

Address: Customer No. 022913

City: _____ State/Prov.: _____

Country: _____ ZIP: _____

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

7. Total fee (37 CFR 3.41):.....\$ 40.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number: 23-3178

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.

Sara D. Jones
 Name of Person Signing

Sara D. Jones
 Signature

August 1, 2005
 Date

Total number of pages including cover sheet, attachments, and



OP \$40.00 1170015

PAGE 2
RECORDATION FORM COVER SHEET

Serial No.: 11/170,015
Filing Date: June 29, 2005
Docket No.: 16192.11

Name of Conveying Parties (cont.)

Patrick M. Simonich June 29, 2005

WHEN RECORDED RETURN TO:

PATENT APPLICATION

Docket No: 16192.11

Workman Nydegger
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

ASSIGNMENT

We the under signed, hereinafter collectively referred to as "Assignor", are the inventors of an invention entitled **BACKUP AND RESTORE OPERATIONS USING A SINGLE SNAPSHOT**. Preferred embodiments of said invention are disclosed in a United States patent application which:

- is executed concurrently herewith for filing in the United States Patent and Trademark Office.
- was previously filed in the United States Patent and Trademark Office on 6/29/2005 Application Serial No. 11/170,015.
- is a United States National Application of PCT International Application No. _____, filed _____.

The Assignee, EMC Corporation, a corporation of the state of Massachusetts, having a principal place of business at 176 South Street, Hopkinton, Massachusetts 01748, desires to secure the entire right, title and interest in said invention and the patent application filed thereon.

In consideration of One Dollar (\$1.00) and other good and valuable consideration paid to Assignor by the Assignee, the receipt and sufficiency of which is hereby acknowledge, ASSIGNOR HEREBY ASSIGNS TO THE ASSIGNEE:

The entire right, title and interest in said invention and in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries.

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the owner of the entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

Assignor hereby agrees, without further consideration and without expense to Assignor, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of Assignor to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Full name of sole or first inventor

Dianne C. Thompson
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

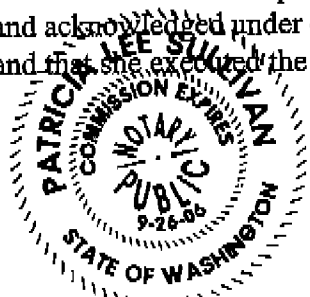
Inventor's signature *Dianne C. Thompson*

Date 6-29-05 Country of Citizenship United States

Address 134 168th Avenue NE, Bellevue, Washington 98008

STATE OF Washington)
COUNTY OF King) : ss.

On June 29, 2005, before me personally appeared Dianne C. Thompson, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that she has read the same and knows the contents thereof and that she executed the same as her free act and deed and for the purposes set forth therein.



Patricia Lee Sullivan
NOTARY PUBLIC
Residing at Bellevue, WA

My Commission Expires:
9-26-06



Full name of second inventor, if any

Carolina P. Uhlmann
(GIVEN NAME) (MIDDLE INITIAL (OR NAME)) FAMILY (OR LAST NAME)

Inventor's signature [Signature]

Date 8/1/2005 Country of Citizenship United States

Address 7727 39th Ave NE, Seattle, Washington 98115

STATE OF Washington)
 : ss.
COUNTY OF King)

On August 1st, 2005, before me personally appeared Carolina P. Uhlmann known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that she has read the same and knows the contents thereof and that she executed the same as her free act and deed and for the purposes set forth therein.



Nathan Sleeper
NOTARY PUBLIC
Residing at 7512 35th Ave NE
Seattle, WA 98115

My Commission Expires:
7/3/09

Full name of third inventor, if any

Janet L. Schneider
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

Inventor's signature [Signature]

Date 6/29/05 Country of Citizenship United States

Address 1532 168th Avenue NE, Bellevue, Washington 98008

STATE OF Washington)
COUNTY OF King) : ss.

On June 29, 2005, before me personally appeared Janet L. Schneider, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that she has read the same and knows the contents thereof and that she executed the same as her free act and deed and for the purposes set forth therein.



[Signature]
NOTARY PUBLIC
Residing at Seattle, WA

My Commission Expires: 9-26-06

Full name of fourth inventor, if any

Eric A. Herrmann
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

Inventor's signature Eric A. Herrmann

Date 6-29-05 Country of Citizenship United States

Address 9531 146th Place SE, Snohomish, Washington 98008

STATE OF Washington)
COUNTY OF King) : ss.

On June 29, 2005, before me personally appeared Eric A. Herrmann, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he has read the same and knows the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.



Patricia Lee Sullivan
NOTARY PUBLIC
Residing at Seattle, WA

My Commission Expires: 9-26-06

Full name of fifth inventor, if any

Patrick M. Simonich
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

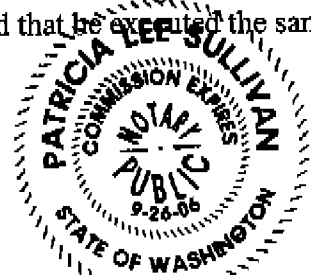
Inventor's signature Patrick M Simonich

Date 6/29/2005 Country of Citizenship United States

Address 11207 SE 218th Place, Kent, Washington 98031

STATE OF Washington)
COUNTY OF King) : ss.

On June 29, 2005, before me personally appeared Patrick M. Simonich, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he has read the same and knows the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.



Patricia Lee Sullivan
NOTARY PUBLIC
Residing at Seattle, WA

My Commission Expires: 9-26-06