

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Debra H. Graham</td> <td>03/12/2013</td> </tr> <tr> <td>Matthew D. Buchman</td> <td>03/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Debra H. Graham	03/12/2013	Matthew D. Buchman	03/12/2013
Name	Execution Date						
Debra H. Graham	03/12/2013						
Matthew D. Buchman	03/12/2013						
RECEIVING PARTY DATA							
Name:	EMC Corporation						
Street Address:	176 South Street						
City:	Hopkinton						
State/Country:	MASSACHUSETTS						
Postal Code:	01748						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13803134</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13803134		
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Application Number:	13803134						
CORRESPONDENCE DATA							
Fax Number:	8013281707						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	801-533-9800						
Email:	mdunaway@wnlaw.com						
Correspondent Name:	Workman Nydegger						
Address Line 1:	60 East South Temple						
Address Line 2:	Suite 1000						
Address Line 4:	Salt Lake City, UTAH 84111						
ATTORNEY DOCKET NUMBER:	16192.103						
NAME OF SUBMITTER:	Carl T. Reed						
Total Attachments: 4 source=16192-103_Assignment#page1.tif source=16192-103_Assignment#page2.tif source=16192-103_Assignment#page3.tif source=16192-103_Assignment#page4.tif							

OP \$40.00 13803134

ASSIGNMENT

WHEREAS, we, Debra H. Graham and Matthew D. Buchman 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 FILE BLOCK ADDRESSING FOR BACKUPS 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 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: March 12, 2013

Debra H. Graham
Inventor's Signature

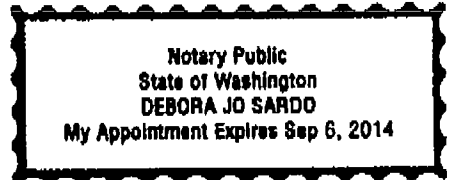
Print full name of first inventor: **Debra H. Graham**
Residence: Seattle, WA
Citizenship: USA
Mailing Address: 8322 28th Ave NW
Seattle, WA 98117

STATE OF WASHINGTON
COUNTY OF KING

On this 12th day of MARCH, 2013, before me appeared DEBRA H. GRAHAM who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Debora Jo Sardo
Notary Public
Print Name: Debora Jo Sardo
My Commission expires 9/6/2014

Date: 3/12/2013



Inventor's Signature

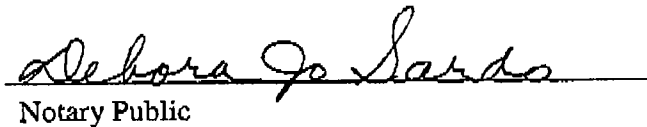
Print full name of second inventor: **Matthew D. Buchman**
Residence: Seattle, WA
Citizenship: USA
Mailing Address: 7525 18th Ave NW
Seattle, WA 98117

STATE OF WASHINGTON
COUNTY OF KING

On this 12th day of MARCH, 2013, before me appeared MATTHEW D. BUCHMAN who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Notary Public

Print Name: Debora Jo Sardo

My Commission expires 9/6/2014

