

## 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>Matthew D. Buchman</td> <td>03/13/2013</td> </tr> <tr> <td>Jerzy Gruszka</td> <td>03/13/2013</td> </tr> <tr> <td>Prashant Shukla</td> <td>03/13/2013</td> </tr> <tr> <td>Min-Chih L. Earl</td> <td>03/14/2013</td> </tr> </tbody> </table>		Name	Execution Date	Matthew D. Buchman	03/13/2013	Jerzy Gruszka	03/13/2013	Prashant Shukla	03/13/2013	Min-Chih L. Earl	03/14/2013
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Matthew D. Buchman	03/13/2013										
Jerzy Gruszka	03/13/2013										
Prashant Shukla	03/13/2013										
Min-Chih L. Earl	03/14/2013										
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>13826549</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13826549						
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Application Number:	13826549										
CORRESPONDENCE DATA											
Fax Number:	8013281707										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	16192.107										
NAME OF SUBMITTER:	Carl T. Reed										
Total Attachments: 6											

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**ASSIGNMENT**

**WHEREAS**, we, Matthew D. Buchman, Jerzy Gruszka, Prashant Shukla and Min-Chih L. Earl 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 DE-DUPLICATED FILE SHARE MOUNTING FOR GRANULAR LEVEL DATA RECOVERIES, 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: 3/13/2013

[Handwritten Signature]

Inventor's Signature

Print full name of first inventor:

**Matthew D. Buchman**

Residence:

Seattle, WA

Citizenship:

USA

Mailing Address:

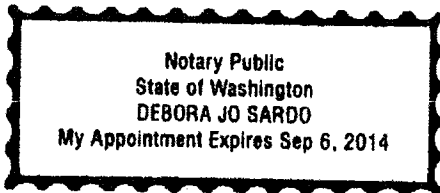
7525 18th Avenue NW  
Seattle, WA 98117

STATE OF WASHINGTON  
COUNTY OF KING

On this 13<sup>th</sup> 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.



[Handwritten Signature: Debora Jo Sardo]

Notary Public

Print Name: Debora Jo Sardo

My Commission expires 9/6/2014

Date: 3-13-2013

Jerzy Gruszka  
Inventor's Signature

Print full name of second inventor: **Jerzy Gruszka**  
Residence: Lacey, WA  
Citizenship: USA  
Mailing Address: 9201 Vancouver Dr. NE  
Lacey, WA 98516

STATE OF WASHINGTON  
COUNTY OF KING

On this 13<sup>TH</sup> day of MARCH, 2013, before me appeared JERZY GRUSZKA 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.

Deborah Jo Sardo  
Notary Public

Print Name: Deborah Jo Sardo

My Commission expires 9/6/2014



Date: 3/13/2013

Prashant Shukla  
Inventor's Signature

Print full name of third inventor: **Prashant Shukla**  
Residence: Redmond, WA  
Citizenship: USA  
Mailing Address: 8723 236th AVE NE  
Redmond, WA 98053

STATE OF WASHINGTON  
COUNTY OF KING

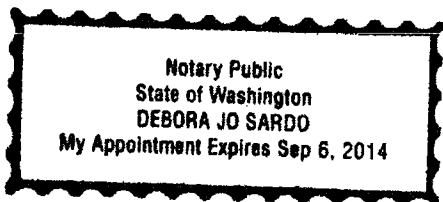
On this 13<sup>th</sup> day of MARCH, 2013, before me appeared PRASHANT SHUKLA who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), 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.

Deborah Jo Sardo  
Notary Public

Print Name: Deborah Jo Sardo  
My Commission expires 9/6/2014



Date: 3-14-2013

Min-Chih L. Earl  
Inventor's Signature

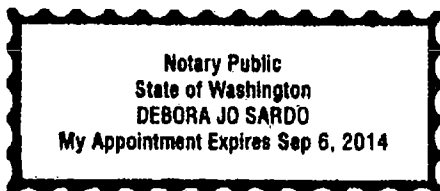
Print full name of fourth inventor: **Min-Chih L. Earl**  
Residence: Redmond, WA  
Citizenship: USA  
Mailing Address: 13312 165th Ave NE  
Redmond, WA 98052

STATE OF WASHINGTON  
COUNTY OF KING

On this 14<sup>th</sup> day of MARCH, 2013, before me appeared MIN-CHIH L. EARL 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