

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>David Haase</td> <td>03/30/2012</td> </tr> <tr> <td>Miles A. de Forest</td> <td>03/30/2012</td> </tr> <tr> <td>Michael D. Haynes</td> <td>03/30/2012</td> </tr> <tr> <td>Dennis T. Duprey</td> <td>04/06/2012</td> </tr> <tr> <td>Scott D. Von Rhee</td> <td>04/02/2012</td> </tr> <tr> <td>Paul T. McGrath</td> <td>03/30/2012</td> </tr> <tr> <td>Dayanand Suldhal</td> <td>03/30/2012</td> </tr> <tr> <td>Nagapraveen V. Seela</td> <td>03/30/2012</td> </tr> <tr> <td>Robert F. Goudreau Jr.</td> <td>03/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	David Haase	03/30/2012	Miles A. de Forest	03/30/2012	Michael D. Haynes	03/30/2012	Dennis T. Duprey	04/06/2012	Scott D. Von Rhee	04/02/2012	Paul T. McGrath	03/30/2012	Dayanand Suldhal	03/30/2012	Nagapraveen V. Seela	03/30/2012	Robert F. Goudreau Jr.	03/30/2012
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<table border="1"> <tr> <td>Name:</td> <td>EMC CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>176 South Street</td> </tr> <tr> <td>City:</td> <td>Hopkinton</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01748</td> </tr> </table>		Name:	EMC CORPORATION	Street Address:	176 South Street	City:	Hopkinton	State/Country:	MASSACHUSETTS	Postal Code:	01748										
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CORRESPONDENCE DATA																					
Fax Number:	(508)293-7189																				
Email:	docketing@emc.com																				
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																					
Correspondent Name:	EMC Corporation Office of General Counsel																				
Address Line 1:	176 South Street																				
Address Line 4:	Hopkinton, MASSACHUSETTS 01748																				

CH \$40.00 13435832

ATTORNEY DOCKET NUMBER:	EMC-11-864
NAME OF SUBMITTER:	John T. Hurley
Total Attachments: 11 source=EMC-11-864_ExecutedAssnmt#page1.tif source=EMC-11-864_ExecutedAssnmt#page2.tif source=EMC-11-864_ExecutedAssnmt#page3.tif source=EMC-11-864_ExecutedAssnmt#page4.tif source=EMC-11-864_ExecutedAssnmt#page5.tif source=EMC-11-864_ExecutedAssnmt#page6.tif source=EMC-11-864_ExecutedAssnmt#page7.tif source=EMC-11-864_ExecutedAssnmt#page8.tif source=EMC-11-864_ExecutedAssnmt#page9.tif source=EMC-11-864_ExecutedAssnmt#page10.tif source=EMC-11-864_ExecutedAssnmt#page11.tif	

ASSIGNMENT

WHEREAS, we, David Haase, Miles A. de Forest, Michael D. Haynes, Dennis T. Duprey, Scott D. Von Rhee, Paul Thomas McGrath, Dayanand Suldhal, Nagapraveen V. Seela and Robert F. Goudreau, Jr., 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 *RESTORING SNAPSHOTS TO CONSISTENCY GROUPS OF MOUNT POINTS* (Application), 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 March 30, 2012 as U.S. Application No. 13/435832;
- ☐ 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;

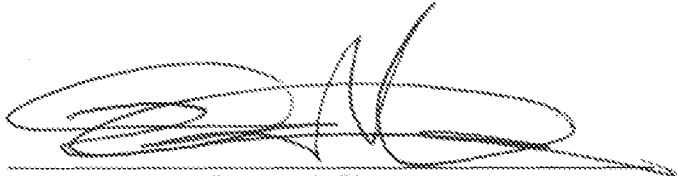
AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

AND, we hereby authorize our attorneys, EMC Corporation, to insert here in parenthesis (Appln. No. 13/435832 / Filing Date: March 30, 2012) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date:

3/30/12



Inventor's Signature

Print full name of first inventor:

David Haase

Residence:

904 Cedar Point Court, Fuquay Varina, NC 27526

Citizenship:

United States of America

Mailing Address:

Same as above

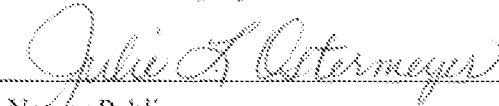
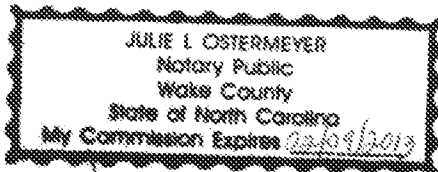
STATE/Commonwealth of

NORTH CAROLINA

COUNTY OF

DURHAM

On this 30th day of MARCH, 2012, then personally appeared before me the above-named David Haase, known to me through satisfactory evidence of identification [☒] employee identification card; [☐] driver's license; [☐] (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2013

Date: 30 March - 2012

Miles A. de Forest
Inventor's Signature

Print full name of second inventor:

Miles A. de Forest

Residence:

6921 Iron Gate Drive, Bahama, NC 27503

Citizenship:

United States of America

Mailing Address:

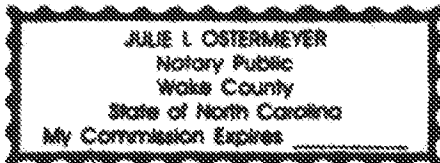
Same as above

STATE/Commonwealth of
COUNTY OF

NORTH CAROLINA
DURHAM

On this 30th day of MARCH, 2012, then personally appeared before me the above-named Miles A. de Forest known to me through satisfactory evidence of identification [☒] employee identification card; [☐] driver's license; [☐] (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

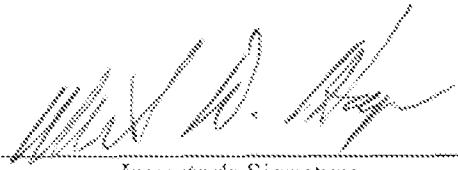
Julie L. Ostermeyer
Notary Public



Print Name: JULIE L. OSTERMEYER
My Commission expires 03/01/2013

Date:

3/30/2012


Inventor's Signature

Print full name of third inventor:

Michael D. Haynes

Residence:

8513 Wood Lawn Drive, Raleigh, NC 27613

Citizenship:

United States of America

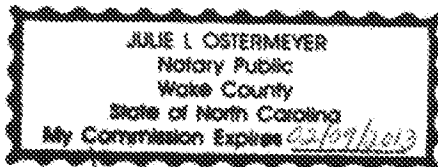
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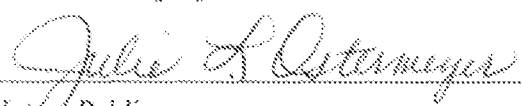
Same as above

STATE/Commonwealth of
COUNTY OF

NORTH CAROLINA
DURHAM

On this 30TH day of MARCH, 2012, then personally appeared before me the above-named Michael D. Haynes, known to me through satisfactory evidence of identification [☒] employee identification card; [☐] driver's license; [☐] (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



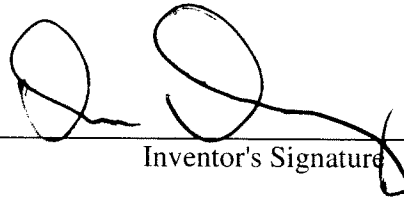

Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2013

Date:

4/6/12


Inventor's Signature

Print full name of fourth inventor:

Dennis T. Duprey

Residence:

100 Tibury Court, Raleigh, NC 27615

Citizenship:

United States of America

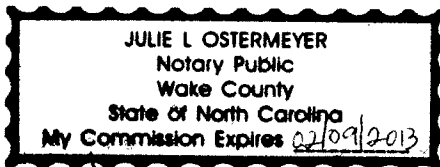
Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

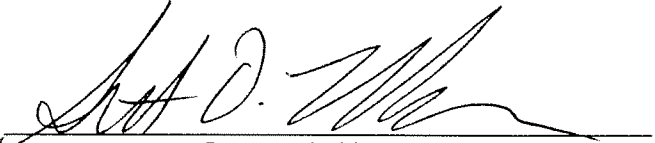
NORTH CAROLINA
DURHAM

On this 6TH day of APRIL, 2012, then personally appeared before me the above-named Dennis T. Duprey, known to me through satisfactory evidence of identification [☒] employee identification card; [☐] driver's license; [☐] (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.




Notary Public
Print Name: JULIE L. OSTERMEYER
My Commission expires 02/09/2013

Date: 4-2-2012


Inventor's Signature

Print full name of fifth inventor:

Scott D. Von Rhee

Residence:

203 Lamartine Street, Boston, MA 02130

Citizenship:

United States of America

Mailing Address:

Same as above

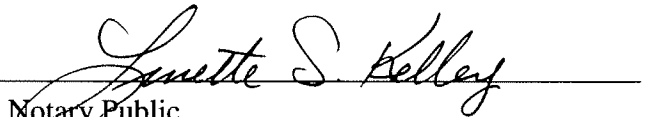
STATE/Commonwealth of

Massachusetts

COUNTY OF

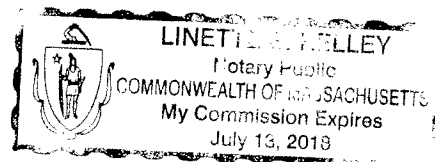
Middlesex

On this 2nd day of April, 2012, then personally appeared before me the above-named Scott D. Von Rhee, known to me through satisfactory evidence of identification [☐] employee identification card; [☒] driver's license; [☐] (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public

Print Name: Linette S. Kelley

My Commission expires 07/13/2018



Date: 3-30-12

Paul T. McGrath
Inventor's Signature

Print full name of sixth inventor:

Paul T. McGrath

Residence:

8608 Brookdale Drive, Raleigh, NC 27613

Citizenship:

United States of America

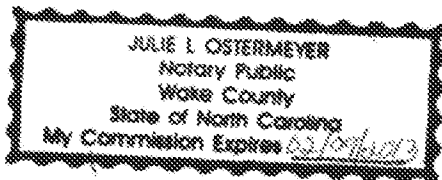
Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

NORTH CAROLINA
DURHAM

On this 30th day of MARCH, 2012, then personally appeared before me the
above-named Paul T. McGrath, known to me through satisfactory evidence of identification
☒ employee identification card; ☐ driver's license; ☐ (other) _____
to be the person whose name is subscribed to the foregoing Assignment and acknowledged that
he/she executed the same as his/her free act and deed for the purposes therein contained.



Julie L. Ostermeyer
Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 03/01/2013

Date: 03/30/2012



Inventor's Signature

Print full name of seventh inventor:

Dayanand Suldhal

Residence:

228 Park Street, Apt. 7, New Canaan, CT 06840

Citizenship:

India

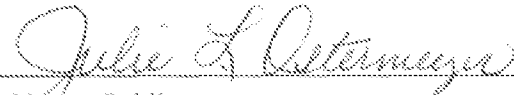
Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

NORTH CAROLINA
DURHAM

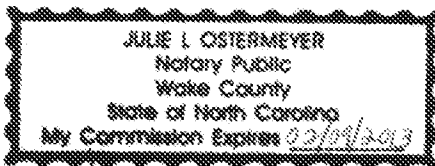
On this 30th day of MARCH, 2012, then personally appeared before me the
above-named Dayanand Suldhal, known to me through satisfactory evidence of identification
[☒] employee identification card; [☐] driver's license; [☐] (other) _____
to be the person whose name is subscribed to the foregoing Assignment and acknowledged that
he/she executed the same as his/her free act and deed for the purposes therein contained.



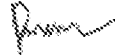
Notary Public

Print Name: Julie L. Ostermeyer

My Commission expires 02/01/2013



Date: 03/30/2012



Inventor's Signature

Print full name of eighth inventor:

Nagapraveen V. Seela

Residence:

533 Stonecroft Lane, Cary, NC 27519

Citizenship:

India

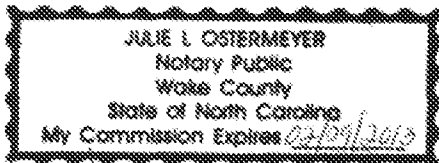
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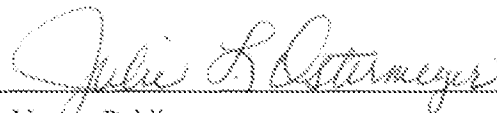
Same as above

STATE/Commonwealth of
COUNTY OF

NORTH CAROLINA
DURHAM

On this 30th day of MARCH, 2012, then personally appeared before me the
above-named Nagapraveen V. Seela, known to me through satisfactory evidence of
identification ☒ employee identification card; ☐ driver's license; ☐ (other) _____
_____ to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he/she executed the same as his/her free act and deed for the
purposes therein contained.





Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2013

Date: March 30, 2012

Robert F. Goudreau, Jr.
Inventor's Signature

Print full name of ninth inventor:

Robert F. Goudreau, Jr.

Residence:

1603 Kilarney Drive, Cary, NC 27511

Citizenship:

United States of America

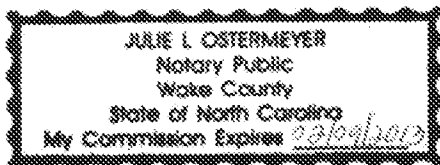
Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

NORTH CAROLINA
DURHAM

On this 30th day of MARCH, 2012, then personally appeared before me the
above-named Robert F. Goudreau Jr., known to me through satisfactory evidence of
identification ☒ employee identification card; ☐ driver's license; ☐ (other) _____
_____ to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he/she executed the same as his/her free act and deed for the
purposes therein contained.



Julie L. Ostermeyer
Notary Public
Print Name: JULIE L. OSTERMEYER
My Commission expires 02/09/2013