

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>Robert P. Foley</td> <td>03/11/2013</td> </tr> <tr> <td>Peter Puhov</td> <td>03/11/2013</td> </tr> <tr> <td>Marc C. Cassano</td> <td>03/11/2013</td> </tr> <tr> <td>Daniel E. Cummins</td> <td>03/11/2013</td> </tr> <tr> <td>David W. Harvey</td> <td>03/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Robert P. Foley	03/11/2013	Peter Puhov	03/11/2013	Marc C. Cassano	03/11/2013	Daniel E. Cummins	03/11/2013	David W. Harvey	03/11/2013
Name	Execution Date												
Robert P. Foley	03/11/2013												
Peter Puhov	03/11/2013												
Marc C. Cassano	03/11/2013												
Daniel E. Cummins	03/11/2013												
David W. Harvey	03/11/2013												
RECEIVING PARTY DATA													
Name:	EMC Corporation												
Street Address:	176 South Street												
Internal Address:	Office of the General Counsel												
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>13804506</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13804506								
Property Type	Number												
Application Number:	13804506												
CORRESPONDENCE DATA													
Fax Number:	5082937189												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	508-435-1000												
Email:	Docketing@emc.com												
Correspondent Name:	EMC CORPORATION OFFICE OF THE GENERAL CO												
Address Line 1:	176 SOUTH STREET												
Address Line 4:	HOPKINTON, MASSACHUSETTS 01748												
ATTORNEY DOCKET NUMBER:	EMC-12-973												
NAME OF SUBMITTER:	Deepika Bhayana												

CH \$40.00 13804506

Total Attachments: 7

source=EMC-12-973_Assignment_filed_3-14-13#page1.tif

source=EMC-12-973_Assignment_filed_3-14-13#page2.tif

source=EMC-12-973_Assignment_filed_3-14-13#page3.tif

source=EMC-12-973_Assignment_filed_3-14-13#page4.tif

source=EMC-12-973_Assignment_filed_3-14-13#page5.tif

source=EMC-12-973_Assignment_filed_3-14-13#page6.tif

source=EMC-12-973_Assignment_filed_3-14-13#page7.tif

ASSIGNMENT

WHEREAS, we, Robert P. Foley, Peter Puhov, Marc C. Cassano, Daniel E. Cummins and David W. Harvey 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 **MANAGING SOFTWARE ERRORS IN STORAGE SYSTEMS** (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 _____ 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;

AND, we hereby authorize our attorneys, EMC Corporation, to insert here in parentheses () 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: 3/11/2013

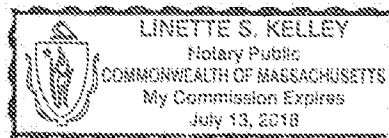
[Signature]
Inventor's Signature

Print full name of first inventor: Robert P. Foley
Residence: 705C Ridgefield Circle, Clinton, MA 01510
Citizenship: USA
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 11th day of March, 2013, then personally appeared before me the above-named Robert P. Foley 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.

[Signature]
Notary Public
Print Name: Linette S. Kelley
My Commission expires 07/13/2018



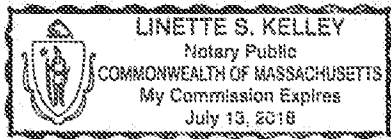
Date: [Signature] 03/11/2013
Inventor's Signature

Print full name of second inventor: Peter Puhov
Residence: 521 Grafton Street, Shrewsbury, MA 01545
Citizenship: USA
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 11th day of March, 2013, then personally appeared before me the above-named Peter Puhov 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.

[Signature]
Notary Public
Print Name: Linette S. Kelley
My Commission expires 07/13/2018



Date: 3/11/13

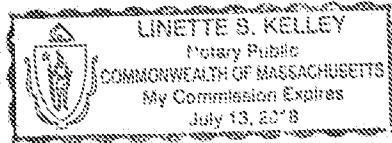
Marc Cassano
Inventor's Signature

Print full name of third inventor: Marc C. Cassano
Residence: 8 Clark Street, Medway, MA 02053
Citizenship: USA
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 11th day of March, 2013, then personally appeared before me the above-named Marc C. Cassano 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.

Linette S. Kelley
Notary Public
Print Name: Linette S. Kelley
My Commission expires 07/13/2018



Date: 3/11/2013

Daniel E. Cummins
Inventor's Signature

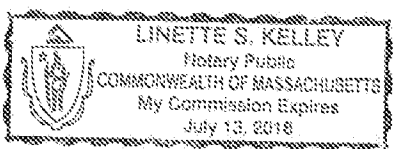
Print full name of fourth inventor: Daniel E. Cummins
Residence: 12 Cathedral Lane, Hudson, NH 03051
Citizenship: USA
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 11th day of March, 2013, then personally appeared before me the above-named Daniel E. Cummins 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.

Linette S. Kelley
Notary Public

Print Name: Linette S. Kelley
My Commission expires 07/13/2018



Date: 3/11/2013

David W. Harvey
Inventor's Signature

Print full name of fifth inventor: David W. Harvey
Residence: 36 Pine Crest Road, Newton, MA 02459
Citizenship: USA
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 11th day of March, 2013, then personally appeared before me the above-named David W. Harvey 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.

Linette S. Kelley
Notary Public

Print Name: Linette S. Kelley
My Commission expires 07/13/2018

