

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>John S. Harwood</td> <td>02/22/2008</td> </tr> <tr> <td>Thomas E. Linnell</td> <td>02/22/2008</td> </tr> <tr> <td>John T. Fitzgerald</td> <td>03/05/2008</td> </tr> <tr> <td>Amnon Izhar</td> <td>02/21/2008</td> </tr> <tr> <td>Charles E. Arsenault</td> <td>02/26/2008</td> </tr> </tbody> </table>		Name	Execution Date	John S. Harwood	02/22/2008	Thomas E. Linnell	02/22/2008	John T. Fitzgerald	03/05/2008	Amnon Izhar	02/21/2008	Charles E. Arsenault	02/26/2008
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Amnon Izhar	02/21/2008												
Charles E. Arsenault	02/26/2008												
<b>RECEIVING PARTY DATA</b>													
<b>Name:</b>	EMC Corporation												
<b>Street Address:</b>	176 South Street												
<b>City:</b>	Hopkinton												
<b>State/Country:</b>	MASSACHUSETTS												
<b>Postal Code:</b>	01748												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12043780</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12043780								
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Application Number:	12043780												
<b>CORRESPONDENCE DATA</b>													
<b>Fax Number:</b>	(713)456-2836												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
<b>Phone:</b>	7135713460												
<b>Email:</b>	Richard.Auchterlonie@novakdruce.com												
<b>Correspondent Name:</b>	Richard C. Auchterlonie												
<b>Address Line 1:</b>	1000 Louisiana Street, 53rd Floor												
<b>Address Line 2:</b>	Novak Druce & Quigg, LLP												
<b>Address Line 4:</b>	Houston, TEXAS 77002												
<b>ATTORNEY DOCKET NUMBER:</b>	EMC-07-301(PRO)ORD												
<b>NAME OF SUBMITTER:</b>	Richard C. Auchterlonie												

**CH \$40.00 12043780**

**Total Attachments: 6**

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**ASSIGNMENT**

**WHEREAS**, we, John S. Harwood, Thomas E. Linnell, John T. Fitzgerald, Amnon Izhar, and Charles E. Arsenault 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 ENCRYPTION KEY RECOVERY IN THE EVENT OF STORAGE MANAGEMENT FAILURE, 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: 2/22/08

John S. Harwood  
Inventor's Signature

Print full name of first inventor: John S. Harwood  
Residence: 155 Marshall St., Paxton, MA 01612  
Citizenship: United States  
Mailing Address: 155 Marshall St., Paxton, MA 01612

STATE/Commonwealth of Massachusetts  
COUNTY OF Worcester

On this 22nd day of February, 2008, then personally appeared before me the above-named John S. Harwood 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.

Nancy J. Forrester  
Notary Public

Print Name: Nancy J. Forrester

My Commission expires 01/30/2015

Date: FEBRUARY 22, 2008

Thomas E. Linnell  
Inventor's Signature

Print full name of second inventor: Thomas E. Linnell

Residence: 9 Bridle Path Drive, Northborough, MA 01532

Citizenship: United States

Mailing Address: 9 Bridle Path Drive, Northborough, MA 01532

STATE/Commonwealth of Massachusetts  
COUNTY OF Worcester

On this 22nd day of February, 2008, then personally appeared before me the above-named Thomas E. Linnell 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.

Nancy J. Forrester  
Notary Public

Print Name: Nancy J. Forrester

My Commission expires 01/30/2015

Date: 3/5/2008

John T. Fitzgerald  
Inventor's Signature

Print full name of third inventor: John T. Fitzgerald

Residence: 3 Mayflower Drive, Mansfield, MA 02048

Citizenship: United States

Mailing Address: 3 Mayflower Drive, Mansfield, MA 02048

STATE/Commonwealth OF Massachusetts  
COUNTY OF Middlesex

On this 5<sup>th</sup> day of March, 2008, then personally appeared before me the above-named John T. Fitzgerald 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.

Mary P. McDermott  
Notary Public

Print Name: Mary P. McDermott, Notary Public  
Commonwealth of Massachusetts  
My Commission Expires 8/24/2012  
My Commission expires \_\_\_/\_\_\_/\_\_\_

Date: 2/21/2008

Amnon Izhar  
Inventor's Signature

Print full name of fourth inventor: Amnon Izhar  
Residence: 135 Pleasant Street, Apt. 504, Brookline, MA 02446  
Citizenship: Israel  
Mailing Address: 135 Pleasant Street, Apt. 504, Brookline, MA 02446

STATE/Commonwealth of MASSACHUSETTS  
COUNTY OF MIDDLESEX

On this 21 day of FEBRUARY, 2008, then personally appeared before me the above-named Amnon Izhar 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.

Sandra A. Kulaga  
Notary Public

Print Name: \_\_\_\_\_  
My Commission expires \_\_\_/\_\_\_/\_\_\_



SANDRA A. KULAGA  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
March 27, 2008

Date: 2/26/2008

Charles E. Arsenault  
Inventor's Signature

Print full name of fifth inventor: Charles E. Arsenault  
Residence: 15 Valley Brook Road, Westborough, MA 01581  
Citizenship: United States  
Mailing Address: 15 Valley Brook Road, Westborough, MA 01581

STATE/Commonwealth OF Massachusetts  
COUNTY OF Middlesex

On this 26<sup>th</sup> day of February, 2008, then personally appeared before me the above-named Charles E. Arsenault 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.

Mary P. McDermott  
Notary Public

Print Name: \_\_\_\_\_  
My Commission expires \_\_\_\_\_

Mary P. McDermott, Notary Public  
Commonwealth of Massachusetts  
My Commission Expires 8/24/2012