**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

**SUBMISSION TYPE:**  
**NEW ASSIGNMENT**

**NATURE OF CONVEYANCE:**  
**ASSIGNMENT**

**CONVEYING PARTY DATA**

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Ron Arman</td>
<td>12/14/2007</td>
</tr>
<tr>
<td>Thomas E. Linnell</td>
<td>12/14/2007</td>
</tr>
<tr>
<td>Sachin More</td>
<td>12/14/2007</td>
</tr>
<tr>
<td>Adi Ofer</td>
<td>06/28/2007</td>
</tr>
<tr>
<td>Gilad Sade</td>
<td>06/28/2007</td>
</tr>
<tr>
<td>Adnan Sahin</td>
<td>12/14/2007</td>
</tr>
<tr>
<td>Preston Crow</td>
<td>12/14/2007</td>
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**RECEIVING PARTY DATA**

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<tr>
<th>Name</th>
<th>EMC Corporation</th>
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<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>
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**PROPERTY NUMBERS Total: 1**

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<tr>
<td>Application Number</td>
<td>11770824</td>
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**CORRESPONDENCE DATA**

Fax Number: (508)303-0005  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 508-303-2003  
Email: mike@grpatent.com  
Correspondent Name: Guerin & Rodriguez, LLP  
Address Line 1: 5 Mt. Royal Ave., Mt. Royal Office Park  
Address Line 4: Marlborough, MASSACHUSETTS 01752

**ATTORNEY DOCKET NUMBER:**  
EMC-066 (EMC-07-060)
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ASSIGNMENT

WHEREAS, we, Ron Arnan, Thomas E. Linnell, Sachin More, Adi Ofer, Gilad Sade, Adnan Suhin, and Preston Crow, 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

System and Method of Managing and Optimizing Power Consumption in a Storage System

the specification of which:

[X] was filed on June 29, 2007 as U.S. Application No.: 11/770,824;

is being executed on even date herewith and is about to be filed in the United States Patent Office;

[X] 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: 12/14/2007

Print full name of first inventor:

Ron Arnan

Residence:

30 Harvard Ave, Brookline, MA 02446, USA

Citizenship:

USA

Mailing Address:

30 Harvard Ave, Brookline, MA 02446, USA

STATE: COMMONWEALTH OF MASSACHUSETTS
COUNTY OF: Middlesex

On this 14th day of December, 2007, then personally appeared before me the above-named, Ron Arnan, known to me through satisfactory evidence of identification [X] 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: Varda R. Ballantyne

My Commission expires 09/12/2010
Date: December 14, 2007

Print full name of second inventor:
Thomas E. Linnell

Residence:
9 Bridle Path Drive, Northboro, MA 01532, USA

Citizenship:
USA

Mailing Address:
9 Bridle Path Drive, Northboro, MA 01532, USA

STATE/COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 14th day of December, 2007, then personally appeared before me the above-named, Thomas E. Linnell, known to me through satisfactory evidence of identification [X] 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 thereof contained.

[Signature]
Notary Public
Print Name: Marsha L. Ballantyne
My Commission expires 09/12/2010
Date: 12/14/2007

Print full name of third inventor:
Sachin More

Residence:
202 Windsor Ridge Drive, Westborough, MA 01581, USA

Citizenship:
India

Mailing Address:
141 Howard St., Northborough, MA 01532

202 Windsor Ridge Drive, Westborough, MA 01581, USA

STATE/COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 14th day of December, 2007, then personally appeared before me the above-named, Sachin More, known to me through satisfactory evidence of identification [___] employee identification card; [X] 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: Marsha R. Ballantyne
My Commission expires 09/17/2010
Date: 1/20/201

Inventor's Signature

Adi Ofer
10 Merriam Rd, Framingham MA 01701, USA

Israel
10 Merriam Rd, Framingham MA 01701, USA

STATE/COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Worcester

On this 26 day of February, 2007, then personally appeared before me the above-named, Adi Ofer, 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: Nancy J. Fusillo
My Commission expires 03/21/2018
Date: 6/28/2007

Inventor's Signature

Print full name of fifth inventor:
Gilad Sade

Residence:
20 Carthay Circle, Newton, MA 02461, USA
Israel and USA
20 Carthay Circle, Newton, MA 02461, USA

Mailing Address:

STATE/COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Worcester

On this 28th day of June, 2007, then personally appeared before me the
above-named, Gilad Sade, 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: Nancy J. Forrest
My Commission expires 12/31/2018
Date: 12/14/07

Adnan Sahin

122 Babcock Street, Suite 4, Brookline, MA 02446, USA
USA 140 Pine Grove St, Needham, MA 02494

On this 14th day of December, 2007, then personally appeared before me the above-named, Adnan Sahin, known to me through satisfactory evidence of identification [___] employee identification card; [X] 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.

Marshalee Ballantyne

Notary Public

Print Name: Marshalee Ballantyne

My Commission expires 09/21/2010
Date: 14 Dec 2007

Print full name of seventh inventor:

Preston Crow

Residence: 41 Rockwood Drive, Ashland, MA 01721, USA

Citizenship: USA

Mailing Address: 41 Rockwood Drive, Ashland, MA 01721, USA

STATE: COMMONWEALTH OF MASSACHUSETTS
COUNTY OF: Worcester, Middlesex

On this 14th day of December, 2007, then personally appeared before me the above-named, Preston Crow, known to me through satisfactory evidence of identification [___] employee identification card; [X] 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: Marsha R. Ballantyne

My Commission expires: 09/21/2010