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REGISTRATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patents and Trademarks Office: Please record the attached documents or the new address(es) below

001221

1. Name of conveying party(ies)

a) Gilad Sade
b) Thomas E. Linnell

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):

Name: EMC Corporation

Internal Address: Office of the General Counsel

Street Address: 176 South Street

City: Hopkinton

State: Massachusetts

Country: USA Zip: 01748

Additional name(s) and address(es) attached? Yes No

3. Nature of Conveyance/Execution Date(s):

Execution Date: a) 12/14/07 and b) 12/19/07

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmation License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? Yes No

Did not file

5. Name and address to whom correspondence concerning document should be mailed:

Name: Jason A. Reyes

Internal Address: EMC Corporation

Office of the General Counsel

Street Address: 176 South Street

City: Hopkinton State: MA Zip: 01748

Phone Number: 508-293-7074

Fax Number: 508-293-7189

Email Address: Reyes Jason@emc.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41): \$ 40.00

- Authorized to be charge by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit account number 05-0889

Authorized User Name Jason A. Reyes

01/07/2008 NJANA1 00000070 050889 12004992

01 FC:0021 40.00 12.20.07

9. Signature:

Jason A. Reyes
Signature

Date

Jason A. Reyes

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: []

PATENT/Joint Assignment
 EMC Docket No.: EMC-07-324
 Express Mail Mailing Label No. ED 767841783 US

ASSIGNMENT

WHEREAS, we, Gilad Sade and Thomas E. Linnell 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 *CACHING WITH FLASH-BASED MEMORY*, 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,

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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

[Signature]
Inventor's Signature

Print full name of first inventor: **Gilad Sade**
Residence: **20 Carthay Circle, Newton, MA 02461**
Citizenship: **United States of America**
Mailing Address: **20 Carthay Circle, Newton, MA 02461**

STATE/Commonwealth of Massachusetts
COUNTY OF Suffolk

On this 14th day of December, 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.

Nancy J. Forrester
Notary Public
Print Name: Nancy J. Forrester
My Commission expires 03/07/2008

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EMC Docket No.: EMC-07-324

Date: DECEMBER 19, 2007

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 of America**
Mailing Address: **9 Bridle Path Drive, Northborough, MA 01532**

STATE/Commonwealth of Massachusetts
COUNTY OF Sturbridge

On this 19th day of December, 2007, 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 03/07/2008