

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3540181

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PHILIP DERBEKO	09/29/2013
ZVI GABRIEL BENHANOKH	09/29/2013
ARIEH DON	09/27/2013
ANAT EYAL	10/10/2013
ALEXANDR VEPRINSKY	09/27/2013
ASSAF NATANZON	09/24/2015
RECEIVING PARTY DATA	
Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14041290
CORRESPONDENCE DATA	
Fax Number:	(508)293-7189
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	508-435-1000
Email:	docketing@emc.com
Correspondent Name:	EMC CORPORATION
Address Line 1:	176 SOUTH STREET
Address Line 4:	HOPKINTON, MASSACHUSETTS 01748
ATTORNEY DOCKET NUMBER:	EMC-13-0414
NAME OF SUBMITTER:	GERALD P. KAZANJIAN
SIGNATURE:	/Gerald P. Kazanjian/
DATE SIGNED:	09/24/2015
Total Attachments: 16	

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ASSIGNMENT

WHEREAS, we, Philip Derbeko, Zvi Gabriel Benhanokh, Assaf Natanzon, Arie Don, Anat Eyal, and Alexandr Veprinsky, 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 METHOD AND APPARATUS FOR FLASH CACHE MANAGEMENT (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 parenthesis (U.S. Patent Application Serial No. 14/041,290 filed September 30, 2013) 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:

25/7/2013

Inventor's Signature

Print full name of inventor

Philip Derbeko

Residence

10/4 Yaakov Dori Street

Modiin, Israel 71700

Citizenship

Israel

Mailing Address

Same as above

I, Anat Dobryan (name of first witness), whose residential address is

was personally present and did see Philip Derbeko (name of person signing the assignment),
who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

I, EREZ SDE-OR (name of second witness), whose residential address is

was personally present and did see Philip Derbeko (name of person signing the assignment),
who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

Date: 3/29/2013

[Signature]
Inventor's Signature

Print full name of inventor

Zvi Gabriel Benhanokh

Residence

14 Gertz Street, Apt. #2

Tel Aviv, Israel 63465

Citizenship

Israel

Mailing Address

Same as above

I, Anat Dobriyan (name of first witness), whose residential address is

was personally present and did see Zvi Gabriel Benhanokh (name of person signing the assignment), who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

I, Erez Sli-Oz (name of second witness), whose residential address is

was personally present and did see Zvi Gabriel Benhanokh (name of person signing the assignment), who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

Date: _____
Inventor's Signature

Print full name of inventor **Assaf Natanzon**
Residence **Levanon 95**
 Tel Aviv, Israel 69395
Citizenship **Israel**
Mailing Address **Same as above**

I, _____ (name of first witness), whose residential address is

_____ was personally present and did see **Assaf Natanzon** (name of person signing the assignment), who is personally known to me, execute the above assignment.

_____ (signature of first witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

I, _____ (name of second witness), whose residential address is

_____ was personally present and did see **Assaf Natanzon** (name of person signing the assignment), who is personally known to me, execute the above assignment.

_____ (signature of second witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

Date: 9.27.13

[Signature]
Inventor's Signature

Print full name of inventor:

Arieh Don

Residence:

45 Dexter Road
Newton, Massachusetts 02460

Citizenship:

USA

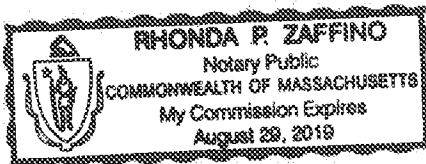
Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

Massachusetts
Middlesex

On this 27th day of September, 2013, then personally appeared before me the above-named **Arieh Don** known to me through satisfactory evidence of identification [☐] employee identification card; [☐] driver's license; [☒] (other) personally known to me 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: Rhonda P. Zaffino

My Commission expires 08/29/2019

Date: 10/10/2013

[Signature]
Inventor's Signature

Print full name of inventor

Anat Eyal

Residence

102 Levi Eshkol Street

Tel Aviv, Israel 69361

Citizenship

Israel

Mailing Address

Same as above

I, Michal Ben-Dochum (name of first witness), whose residential address is

_____ was personally present and did see Anat Eyal (name of person signing the assignment), who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at Herzlia (location of witness signature)

on this day, October 10th, 2013 (date of signature).

I, Maya Hofman Levy (name of second witness), whose residential address is

_____ was personally present and did see Anat Eyal (name of person signing the assignment), who is personally known to me, execute the above assignment.

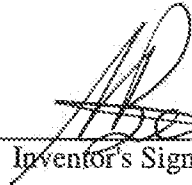
Maya Hofman Levy (signature of second witness)

Signed at Herzlia (location of witness signature)

on this day, October 10th, 2013 (date of signature).

Date:

9/27/2013


Inventor's Signature

Print full name of inventor:

Alexandr Veprinsky

Residence:

145 Babcock Street
Brookline, Massachusetts 02446

Citizenship:

USA

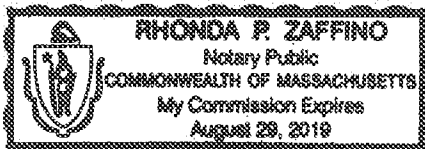
Mailing Address:

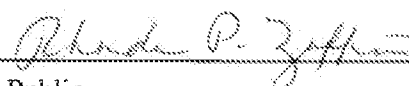
Same as above

STATE/COMMONWEALTH OF
COUNTY OF

Massachusetts
Middlesex

On this 27th day of September, 2013, then personally appeared before me the above-named **Alexandr Veprinsky** known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☒ (other) personally known to me 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: Rhonda P. Zaffino

My Commission expires 08/29/2019

ASSIGNMENT

WHEREAS, we, Philip Derbeko, Zvi Gabriel Benbanokh, Assaf Natanzon, Ariei Don, Anat Eyal, and Alexandr Veprinsky, 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 METHOD AND APPARATUS FOR FLASH CACHE MANAGEMENT (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 September 30, 2013 as U.S. Application No. 14/041,290;

☐ 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 (_____) 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: _____

Inventor's Signature

Print full name of inventor

Philip Derbeko

Residence

10/4 Yaakov Dori Street

Modiin, Israel 71700

Citizenship

Israel

Mailing Address

Same as above

I, _____(name of first witness), whose residential address is

was personally present and did see **Philip Derbeko** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

_____(signature of first witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

I, _____(name of second witness), whose residential address is

was personally present and did see **Philip Derbeko** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

_____(signature of second witness)

Signed at _____ (location of witness signature)

on this day, _____, 20____ (date of signature).

Date: _____
Inventor's Signature

Print full name of inventor **Zvi Gabriel Benhanokh**
Residence 14 Gretz Street, Apt. #2
Tel Aviv, Israel 63465
Citizenship Israel
Mailing Address Same as above

I, _____(name of first witness), whose residential address is

_____ was personally present and did see **Zvi Gabriel Benhanokh** (name of person signing the assignment), who is personally known to me, execute the above assignment.

_____ (signature of first witness)

Signed at _____ (location of witness signature)
on this day, _____, 20____ (date of signature).

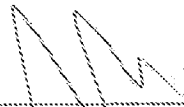
I, _____(name of second witness), whose residential address is

_____ was personally present and did see **Zvi Gabriel Benhanokh** (name of person signing the assignment), who is personally known to me, execute the above assignment.

_____ (signature of second witness)

Signed at _____ (location of witness signature)
on this day, _____, 20____ (date of signature).

Date: 24/9/2015



Inventor's Signature

Print full name of inventor

Assaf Natanzon

Residence

Levanon 95

Tel Aviv, Israel 69395

Citizenship

Israel


Mailing Address

Same as above

I, Sara Zakorovsky (name of first witness), whose residential address is

3 Ramban St. Herzliya, Israel

was personally present and did see Assaf Natanzon (name of person signing the assignment),
who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at Herzliya (location of witness signature)

on this day, 24/9, 2015 (date of signature).

I, Gili Ben Zvi (name of second witness), whose residential address is

Hershtim St. 31, Tel Aviv, Israel

was personally present and did see Assaf Natanzon (name of person signing the assignment),
who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at Herzliya (location of witness signature)

on this day, 24/9, 2015 (date of signature).

Date: _____

Inventor's Signature

Print full name of inventor:

Arieh Don

Residence:

45 Dexter Road
Newton, Massachusetts 02460

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 20____, then personally appeared before me the
above-named **Arieh Don** 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: _____

My Commission expires ____ / ____ / ____

Date: _____
Inventor's Signature

Print full name of inventor **Anat Eyal**
Residence 102 Levi Eshkol Street
Tel Aviv, Israel 69361
Citizenship Israel
Mailing Address Same as above

I, _____(name of first witness), whose residential address is

_____ was personally present and did see **Anat Eyal** (name of person signing the assignment), who is personally known to me, execute the above assignment.

_____ (signature of first witness)

Signed at _____ (location of witness signature)
on this day, _____, 20____ (date of signature).

I, _____(name of second witness), whose residential address is

_____ was personally present and did see **Anat Eyal** (name of person signing the assignment), who is personally known to me, execute the above assignment.

_____ (signature of second witness)

Signed at _____ (location of witness signature)
on this day, _____, 20____ (date of signature).

Date: _____

Inventor's Signature

Print full name of inventor:

Alexandr Veprinsky

Residence:

145 Babcock Street
Brookline, Massachusetts 02446

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of _____

COUNTY OF _____

On this _____ day of _____, 20____, then personally appeared before me the above-named **Alexandr Veprinsky** 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: _____

My Commission expires ____ / ____ / ____