

PATENT ASSIGNMENT

Electronic Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Yechiel Yochai | 12/14/2006 |
| Peng Yin | 12/14/2006 |
| Rong Yu | 12/14/2006 |
| Bing Liu | 12/14/2006 |
| 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: | 11611219 |
| CORRESPONDENCE DATA | |
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| Phone: | 617.452.1600 |
| Email: | malecia.allen@finnegan.com |
| Correspondent Name: | Finnegan Henderson Farabow Garrett & Dun |
| Address Line 1: | 55 Cambridge Parkway, Suite 700 |
| Address Line 4: | Cambridge, MASSACHUSETTS 02142 |
| ATTORNEY DOCKET NUMBER: | 09646.0024-00000 |
| NAME OF SUBMITTER: | Malecia Allen |
| Total Attachments: 10 source=Assignment#page1.tif | |

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ASSIGNMENT

WHEREAS, we, Yechiel Yochai, Peng Yin, Rong Yu, and Bing Liu 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 **METHODS AND SYSTEMS FOR SCHEDULING WRITE DESTAGES BASED ON A TARGET**, 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: 12/14/2006



Inventor's Signature

Print full name of first inventor:

Yechiel Yochai

Residence:

4 Lladnar Drive, Lincoln, RI 02865

Citizenship:

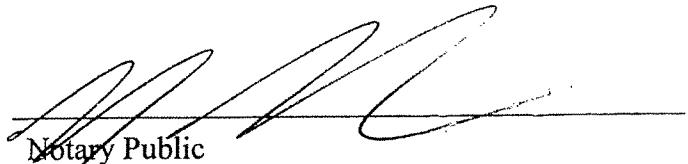
Israel

Mailing Address:

same

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

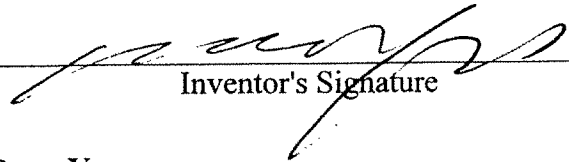
On this 14 day of December, 2006, then personally appeared before me the above-named Yechiel Yochai known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public

Print Name: Joseph D'Angelo

My Commission expires 7/5/13

Date: 12/14/06


Inventor's Signature

Print full name of third inventor:

Rong Yu

Residence:

32 Charles River Drive, Franklin, MA 02038

Citizenship:

China (Peoples Republic)

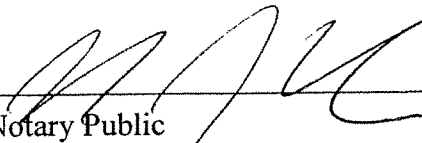
Mailing Address:

same

STATE/Commonwealth of
COUNTY OF

Massachusetts
Middlesex

On this 14 day of December, 2006, then personally appeared before me the
above-named Rong Yu 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: Joseph J. D'Angel

My Commission expires 7/5/13

ASSIGNMENT

WHEREAS, we, Yechiel Yochai, Peng Yin, Rong Yu, and Bing Liu 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 **METHODS AND SYSTEMS FOR SCHEDULING WRITE DESTAGES BASED ON A TARGET**, 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: _____

Inventor's Signature

Print full name of first inventor:

Yechiel Yochai

Residence:

4 Lladnar Drive, Lincoln, RI 02865

Citizenship:

Israel

Mailing Address:

same

STATE/Commonwealth of _____

COUNTY OF _____

On this _____ day of _____, 200____, then personally appeared before me the above-named _____ 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 third inventor:

Rong Yu

Residence:

32 Charles River Drive, Franklin, MA 02038

Citizenship:

China (Peoples Republic)

Mailing Address:

same

STATE/Commonwealth of _____

COUNTY OF _____

On this _____ day of _____, 200____, then personally appeared before me the above-named _____ 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 fourth inventor:

Bing Liu

Residence:

519 Washington St., #14, Brookline, MA 02446

Citizenship:

China (Peoples Republic)

Mailing Address:

same

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 200____, then personally appeared before me the above-named _____ 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 ____ / ____ / ____