

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Gregory W. Lazar</td> <td>12/18/2009</td> </tr> <tr> <td>Greg Mogavero</td> <td>12/18/2009</td> </tr> <tr> <td>Michael Hamel</td> <td>12/18/2009</td> </tr> <tr> <td>Yidong Wang</td> <td>12/18/2009</td> </tr> <tr> <td>Prakash Chanderia</td> <td>12/18/2009</td> </tr> <tr> <td>Feng Zhou</td> <td>12/18/2009</td> </tr> <tr> <td>Ashwin Ramkrishna Tidke</td> <td>12/19/2009</td> </tr> </tbody> </table>		Name	Execution Date	Gregory W. Lazar	12/18/2009	Greg Mogavero	12/18/2009	Michael Hamel	12/18/2009	Yidong Wang	12/18/2009	Prakash Chanderia	12/18/2009	Feng Zhou	12/18/2009	Ashwin Ramkrishna Tidke	12/19/2009
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Feng Zhou	12/18/2009																
Ashwin Ramkrishna Tidke	12/19/2009																
RECEIVING PARTY DATA																	
Name:	EMC Corporation																
Street Address:	176 South Street																
City:	Hopkinton																
State/Country:	MASSACHUSETTS																
Postal Code:	01748																
PROPERTY NUMBERS Total: 1																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12645857</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12645857												
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Application Number:	12645857																
CORRESPONDENCE DATA																	
Fax Number:	(508)366-4688																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	508-616-2900																
Email:	Docket@BainwoodHuang.com																
Correspondent Name:	Bainwood, Huang & Associates, LLC																
Address Line 1:	2 Connector Road																
Address Line 4:	Westborough, MASSACHUSETTS 01581																
ATTORNEY DOCKET NUMBER:	1003-099																

CH \$40.00 12645857

501086794

**PATENT
 REEL: 023906 FRAME: 0773**

NAME OF SUBMITTER:

David E. Huang, Esq.

Total Attachments: 17

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ASSIGNMENT

WHEREAS, we, Gregory W. Lazar, Greg Mogavero, Michael Hamel, Yidong Wang, Prakash Chanderia, Feng Zhou and Ashwin Ramkrishna Tidke 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 **PROVIDING SECURE ACCESS TO A SET OF CREDENTIALS WITHIN A DATA SECURITY MECHANISM OF A DATA STORAGE SYSTEM** 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 Bainwood Huang & Associates LLC to insert here in parentheses (12/645,857 filed 12/23/2009) 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: 12/18/2009

Gregory W. Lazar
Inventor's Signature

Print full name of first inventor:

Gregory W. Lazar

Residence:

10 Rockdale Hill Circle

Upton, MA 01568

Citizenship:

United States of America

Mailing Address:

Same as above

STATE/COMMONWEALTH OF
COUNTY OF

Massachusetts
Worcester

On this 18th day of December, 2009, then personally appeared before me the above-named Gregory W. Lazar 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: 12/18/2009

Greg Mogavero
Inventor's Signature

Print full name of second inventor: Greg Mogavero
Residence: 128 Ardmore Road
Needham, MA 02494
Citizenship: United States of America
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Sturcuta

On this 18th day of December, 2009, then personally appeared before me the above-named Greg Mogavero 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. Forister
Notary Public

Print Name: Nancy J. Forister
My Commission expires 01/30/2015

Date: 12/18/2009

Michael Hamel
Inventor's Signature

Print full name of third inventor: Michael Hamel
Residence: 50 Bowdoin Drive
Milford, MA 01757
Citizenship: United States of America
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Worcester

On this 18th day of December, 2009, then personally appeared before me the above-named Michael Hamel 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: 12/18/2009

[Signature]
Inventor's Signature

Print full name of fourth inventor: Yidong Wang
Residence: 33 Howarth Drive
Upton, MA 01568
Citizenship: P.R. China
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Worcester

On this 18th day of December, 2009, then personally appeared before me the above-named Yidong Wang 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.



[Signature]
Notary Public

Print Name: Nancy J. Forister
My Commission expires 01/30/2015

Date: 12/18/09

Prakash Chanderia

Inventor's Signature

Print full name of fifth inventor:

Prakash Chanderia

Residence:

70 Commons Drive, Apt. 55

Shrewsbury, MA 01545

Citizenship:

India

Mailing Address:

Same as above

STATE/Commonwealth of
COUNTY OF

Massachusetts
Sturbridge

On this 18th day of December, 2009, then personally appeared before me the above-named Prakash Chanderia 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: 12/18/2009



Inventor's Signature

Print full name of sixth inventor: Feng Zhou
Residence: 1640 Worcester Road, 518D
Framingham, MA 01702
Citizenship: China
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Worcester

On this 18th day of December, 2009, then personally appeared before me the above-named Feng Zhou 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. Forrester
My Commission expires 01/30/2015

Date: _____

Inventor's Signature

Print full name of seventh inventor:

Ashwin Ramkrishna Tidke

Residence:

307, Sunita Apartments, Plot 101, Sector-14
Koparkhairane, Navi Mumbai 400709

Citizenship:

India

Mailing Address:

Same as above

TWO WITNESSES:

1. Signature _____

2. Signature _____

Full Name _____

Full Name _____

Address _____

Address _____

On this _____ day of _____, 2009, then personally appeared before me the above-named Ashwin Ramkrishna Tidke 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.

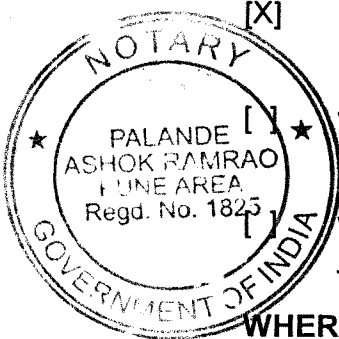
Notary Public

Print Name:

ASSIGNMENT

WHEREAS, we, Gregory W. Lazar, Greg Mogavero, Michael Hamel, Yidong Wang, Prakash Chanderia, Feng Zhou and Ashwin Ramkrishna Tidke 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 **PROVIDING SECURE ACCESS TO A SET OF CREDENTIALS WITHIN A DATA SECURITY MECHANISM OF A DATA STORAGE SYSTEM** 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;

PATENT/Joint Assignment
Attorney Docket No.: 1003-099
EMC Docket No.: EMC-09-130

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 Bainwood Huang & Associates LLC to insert here in parentheses (12/645,857 filed 12/23/2009) 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 first inventor:

Gregory W. Lazar

Residence:

10 Rockdale Hill Circle

Upton, MA 01568

Citizenship:

United States of America

Mailing Address:

Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2009, then personally appeared before me the above-named Gregory W. Lazar 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: Michael Hamel
Residence: 50 Bowdoin Drive
Milford, MA 01757
Citizenship: United States of America
Mailing Address: Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2009, then personally appeared before me the above-named Michael Hamel 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: Yidong Wang
Residence: 33 Howarth Drive
Upton, MA 01568
Citizenship: P.R. China
Mailing Address: Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2009, then personally appeared before me the above-named Yidong Wang 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 fifth inventor:

Prakash Chanderia

Residence:

70 Commons Drive, Apt. 55

Shrewsbury, MA 01545

Citizenship:

India

Mailing Address:

Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2009, then personally appeared before me the above-named Prakash Chanderia 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 sixth inventor: Feng Zhou
Residence: 1640 Worcester Road, 518D
Framingham, MA 01702
Citizenship: China
Mailing Address: Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2009, then personally appeared before me the above-named Feng Zhou 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 ___ / ___ / ___



19th December 2009

PATENT/Joint Assignment
Attorney Docket No.: 1003-099
EMC Docket No.: EMC-09-130

Date: 19/12/2009

Ashwin

Inventor's Signature

Print full name of seventh inventor: Ashwin Ramkrishna Tidke

Residence: 307, Sunita Apartments, Plot 101, Sector-14
Koparkhairane, Navi Mumbai 400709

Citizenship: India

Mailing Address: Same as above 10-B, Anandban Society,
43/3B, Somnathnagar,
Pune - 411014, India

TWO WITNESSES:

1. Signature [Signature]

2. Signature [Signature]

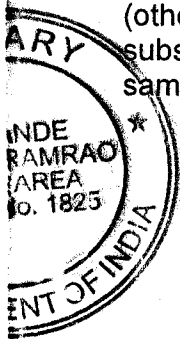
Full Name Bajirao Garje

Full Name Ramkrishna Tidke

Address Garje Market
Chandannagar
Pune - 14

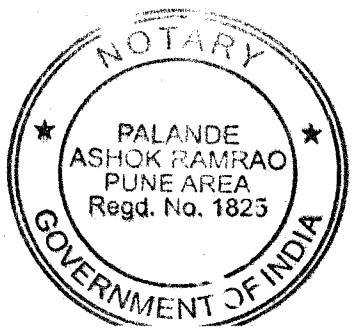
Address 10-B, Anandban Soc.
43/3B, Somnathnagar,
Pune - 14

On this 19th day of December, 2009, then personally appeared before me the above-named Ashwin Ramkrishna Tidke 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.



BEFORE ME

Notary Public [Signature]
Print Name: A. R. PALANDE
NOTARY, GOVT. OF INDIA



NOTED AND REGISTERED AT
SERIAL NUMBER.....
19 DEC 2009 544)09