

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>Yedidya Dotan</td> <td>01/24/2012</td> </tr> <tr> <td>Sorin Faibish</td> <td>01/19/2012</td> </tr> <tr> <td>Samuel Adams</td> <td>03/19/2012</td> </tr> <tr> <td>Yael Villa</td> <td>04/05/2012</td> </tr> <tr> <td>Robert S. Philpott</td> <td>03/22/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yedidya Dotan	01/24/2012	Sorin Faibish	01/19/2012	Samuel Adams	03/19/2012	Yael Villa	04/05/2012	Robert S. Philpott	03/22/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>EMC Corporation</td> </tr> <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> </tr> </table>		Name:	EMC Corporation	Street Address:	176 South Street	City:	Hopkinton	State/Country:	MASSACHUSETTS	Postal Code:	01748		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: (508)366-4688          Phone: 508-616-2900          Email: Docket@BainwoodHuang.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Bainwood, Huang &amp; Associates, LLC          Address Line 1: 2 Connector Road          Address Line 4: Westborough, MASSACHUSETTS 01581</p>													
ATTORNEY DOCKET NUMBER:	1048-104												
NAME OF SUBMITTER:	David E. Huang, Esq.												

CH \$40.00 13341160

**Total Attachments: 35**

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## ASSIGNMENT

**WHEREAS**, we, Yedidya Dotan, Sorin Faibish, Samuel Adams, Yael Villa and Robert S. Philpott 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 **BIOMETRIC AUTHENTICATION WITH SMART MOBILE DEVICE** 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 December 30, 2011 as U.S. Application No. 13/341,160;

☐ 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, USA 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 (\_\_\_\_\_) 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:

29/1/2012

WW  
Inventor's Signature

Yedidya Dotan

Print full name of first inventor:

Residence:

1 Barazani Moshe Street

Tel Aviv, 69121 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I BORIS KRONROD (name) whose residential address is  
1/56 Lotem av., Netanya, Israel 42493  
was personally present and did see Didi Dotan (name of person signing  
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at EMC offices, Herzliya (location of witness signature)

on this day 24 January of 20\_\_\_\_. (date of signature)

I Anton Khitrenovich (name) whose residential address is  
46 Begin St., Kfar Yona, Israel, 40300  
was personally present and did see Didi Dotan (name of person signing  
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at EMC COE, Herzliya (location of witness signature)

on this day January 24 of 20\_\_\_\_. (date of signature)

Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of second inventor: Sorin Faibish  
Residence: 11 Selwyn Road  
Newton, MA 02461  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Sorin Faibish** 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:

Samuel Adams

Residence:

33 Hidden Road  
Andover, MA 01810

Citizenship:

US

Mailing Address:

Same as above

STATE/Commonwealth of \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Samuel Adams** 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:

Yael Villa

Residence:

Romema 36

Tel Aviv, 69419 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)



Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of fifth inventor:

Robert S. Philpott

Residence:

8 Freemont Lane

Andover, MA 01810

Citizenship:

US

Mailing Address:

Same as above

STATE/Commonwealth of \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the  
above-named **Robert S. Philpott** 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 \_\_\_\_ / \_\_\_\_ / \_\_\_\_

## ASSIGNMENT

**WHEREAS**, we, Yedidya Dotan, Sorin Faibish, Samuel Adams, Yael Villa and Robert S. Philpott 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 **BIOMETRIC AUTHENTICATION WITH SMART MOBILE DEVICE** 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 December 30, 2011 as U.S. Application No. 13/341,160;

☐ 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, USA 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 (\_\_\_\_\_) 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:

Yedidya Dotan

Residence:

1 Barazani Moshe Street

Tel Aviv, 69121 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

Date: 01/19/2012

*Sorin Faibish*

Inventor's Signature

Print Full Name of second inventor:

Sorin Faibish

Residence:

11 Selwyn Road  
Newton, MA 02461

Citizenship:

US

Mailing Address:

Same as above

STATE/COMMONWEALTH OF

Massachusetts

COUNTY OF

Middlesex

On this 19<sup>th</sup> day of January, 2012, then personally appeared before me the above-named **Sorin Faibish** 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.

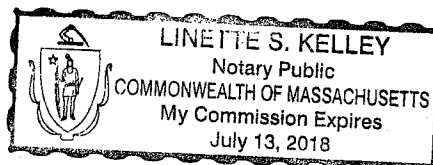
*Linette S. Kelley*

Notary Public

Print Name:

Linette S. Kelley

My Commission expires 07/13/2018



Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of third inventor: Samuel Adams  
Residence: 33 Hidden Road  
Andover, MA 01810  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, then personally appeared before me the above-named **Samuel Adams** 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:

Yael Villa

Residence:

Romema 36

Tel Aviv, 69419 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

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\_\_\_\_\_ (signature of second witness)

Signed at \_\_\_\_\_ (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of fifth inventor: Robert S. Philpott  
Residence: 8 Freemont Lane  
Andover, MA 01810  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Robert S. Philpott** 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 \_\_\_\_ / \_\_\_\_ / \_\_\_\_



**ASSIGNMENT**

**WHEREAS**, we, Yedidya Dotan, Sorin Faibish, Samuel Adams, Yael Villa and Robert S. Philpott 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 **BIOMETRIC AUTHENTICATION WITH SMART MOBILE DEVICE** the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
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**AND** we hereby authorize our attorneys Bainwood Huang & Associates LLC to insert here in parentheses (\_\_\_\_\_) 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:

Yedidya Dotan

Residence:

1 Barazani Moshe Street

Tel Aviv, 69121 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of second inventor: Sorin Faibish  
Residence: 11 Selwyn Road  
Newton, MA 02461  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

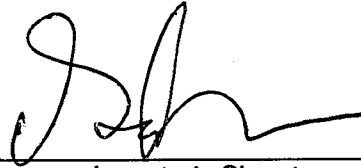
On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Sorin Faibish** known to me through satisfactory evidence of identification [ ] employee identification card; [ ] driver's license; [ ] (other) \_\_\_\_\_ to be the person whose name is subscribed to 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: 3/19/12



Inventor's Signature

Print Full Name of third inventor:

Samuel Adams

Residence:

33 Hidden Road

Andover, MA 01810

Citizenship:

US

Mailing Address:

Same as above

STATE/Commonwealth of  
COUNTY OF

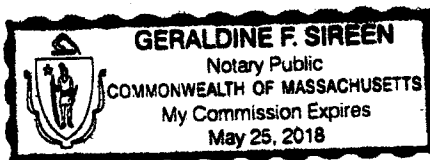
Massachusetts  
Middlesex

On this 19 day of March, 2012 then personally appeared before me the  
above-named **Samuel Adams** 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: GERALDINE F. SIREEN  
My Commission expires 5/25/2018



Date: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature

Print full name of fourth inventor:

Yael Villa

Residence:

Romema 36

Tel Aviv, 69419 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of fifth inventor: Robert S. Philpott  
Residence: 8 Freemont Lane  
Andover, MA 01810  
Citizenship: US  
Mailing Address: Same as above

STATE/COMMONWEALTH OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Robert S. Philpott** 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 \_\_\_\_ / \_\_\_\_ / \_\_\_\_

## ASSIGNMENT

**WHEREAS**, we, Yedidya Dotan, Sorin Faibish, Samuel Adams, Yael Villa and Robert S. Philpott 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 **BIOMETRIC AUTHENTICATION WITH SMART MOBILE DEVICE** 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 December 30, 2011 as U.S. Application No. 13/341,160;
- ☐ 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, USA 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 (\_\_\_\_\_) 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:

Yedidya Dotan

Residence:

1 Barazani Moshe Street

Tel Aviv, 69121 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of second inventor: Sorin Faibish  
Residence: 11 Selwyn Road  
Newton, MA 02461  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the  
above-named **Sorin Faibish** 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: Samuel Adams  
Residence: 33 Hidden Road  
Andover, MA 01810  
Citizenship: US  
Mailing Address: Same as above

STATE/COMMONWEALTH OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_


On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Samuel Adams** 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: 4/5/2012

  
Inventor's Signature

Print full name of fourth inventor: Yael Villa  
Residence: Romema 36  
Tel Aviv, 69419 ISRAEL  
Citizenship: IL  
Mailing Address: Same as above

I Ayelet Eliezer (name) whose residential address is  
3 Hashomer St Givatayim Israel  
was personally present and did see Yael Villa (name of person signing  
the assignment) who is personally known to me, execute the above assignment.

  
(signature of first witness)

Signed at Herzeliya (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I Alon Rahfman (name) whose residential address is  
Bnei Dror P.O. Box 247 Israel  
was personally present and did see Yael Villa (name of person signing  
the assignment) who is personally known to me, execute the above assignment.

  
(signature of second witness)

Signed at Herzeliya (location of witness signature)

on this day 5th April of 2012 (date of signature)

Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of fifth inventor:

Robert S. Philpott

Residence:

8 Freemont Lane  
Andover, MA 01810

Citizenship:

US

Mailing Address:

Same as above

STATE/COMMONWEALTH OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Robert S. Philpott** 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 \_\_\_\_ / \_\_\_\_ / \_\_\_\_

## ASSIGNMENT

**WHEREAS**, we, Yedidya Dotan, Sorin Faibish, Samuel Adams, Yael Villa and Robert S. Philpott 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 **BIOMETRIC AUTHENTICATION WITH SMART MOBILE DEVICE** 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 December 30, 2011 as U.S. Application No. 13/341,160;
- ☐ 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, USA 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 ( ) 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: \_\_\_\_\_

Yedidya Dotan

Residence: \_\_\_\_\_

1 Barazani Moshe Street

Tel Aviv, 69121 ISRAEL

Citizenship: \_\_\_\_\_

IL

Mailing Address: \_\_\_\_\_

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_

was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_. (date of signature)

Date:

\_\_\_\_\_  
Inventor's Signature

Print Full Name of second inventor:

Sorin Faibish

Residence:

11 Selwyn Road

Newton, MA 02461

Citizenship:

US

Mailing Address:

Same as above

STATE/COMMONWEALTH OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the above-named **Sorin Faibish** 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:

Samuel Adams

Residence:

33 Hidden Road  
Andover, MA 01810

Citizenship:

US

Mailing Address:

Same as above

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, then personally appeared before me the  
above-named **Samuel Adams** 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:

Yael Villa

Residence:

Romema 36

Tel Aviv, 69419 ISRAEL

Citizenship:

IL

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_ (date of signature)

I \_\_\_\_\_ (name) whose residential address is

\_\_\_\_\_ was personally present and did see \_\_\_\_\_ (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 \_\_\_\_\_ of 20\_\_\_\_ (date of signature)

Date: 3/22/2012

Robert S. Philpott  
Inventor's Signature

Print Full Name of fifth inventor:

Robert S. Philpott

Residence:

8 Freemont Lane

Andover, MA 01810

Citizenship:

US

Mailing Address:

Same as above

STATE/Commonwealth of  
COUNTY OF

Massachusetts  
Middlesex

On this 22 day of March, 2012, then personally appeared before me the above-named **Robert S. Philpott** 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.

Geraldine F. Sireen

Notary Public

Print Name: GERALDINE F. SIREEN

My Commission expires 5/25/2018

