

PATENT ASSIGNMENT COVER SHEET

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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>XIAOHUA FAN</td> <td>12/20/2013</td> </tr> <tr> <td>QIN TAO</td> <td>12/20/2013</td> </tr> <tr> <td>YUANJIE WU</td> <td>12/20/2013</td> </tr> <tr> <td>XIAOGANG WANG</td> <td>12/20/2013</td> </tr> <tr> <td>DAZHI DONG</td> <td>12/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	XIAOHUA FAN	12/20/2013	QIN TAO	12/20/2013	YUANJIE WU	12/20/2013	XIAOGANG WANG	12/20/2013	DAZHI DONG	12/20/2013
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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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Application Number:	14139927												
CORRESPONDENCE DATA													
Fax Number:	(508)366-4688												
Phone:	508-616-2900												
Email:	Docket@BainwoodHuang.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	BAINWOOD, HUANG & ASSOCIATES, LLC												
Address Line 1:	2 CONNECTOR ROAD												
Address Line 4:	WESTBOROUGH, MASSACHUSETTS 01581												
ATTORNEY DOCKET NUMBER:	1003-285												
NAME OF SUBMITTER:	DAVID SUHL, ESQ.												

Signature:	/David Suhl/
Date:	01/28/2014
Total Attachments: 15 source=1003-285-Executed-Assignment-Inv1#page1.tif source=1003-285-Executed-Assignment-Inv1#page2.tif source=1003-285-Executed-Assignment-Inv1#page3.tif source=1003-285-Executed-Assignment-Inv2#page1.tif source=1003-285-Executed-Assignment-Inv2#page2.tif source=1003-285-Executed-Assignment-Inv2#page3.tif source=1003-285-Executed-Assignment-Inv3#page1.tif source=1003-285-Executed-Assignment-Inv3#page2.tif source=1003-285-Executed-Assignment-Inv3#page3.tif source=1003-285-Executed-Assignment-Inv4#page1.tif source=1003-285-Executed-Assignment-Inv4#page2.tif source=1003-285-Executed-Assignment-Inv4#page3.tif source=1003-285-Executed-Assignment-Inv5#page1.tif source=1003-285-Executed-Assignment-Inv5#page2.tif source=1003-285-Executed-Assignment-Inv5#page3.tif	

ASSIGNMENT

WHEREAS, I, Xiaohua Fan, as the original inventor or an original joint inventor 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

HOST ORIENTED AUTOMATIC VERIFICATION OF BEST PRACTICES

which is further identified by Attorney Docket Number 1003-285;

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 me;

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, I 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 me had this assignment and sale not been made; I 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. I 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, I hereby further agree for myself and my 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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14139,927 filed 12/24/2013) 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, I have hereunto set my hand and affixed my seal as set forth below:

Date: 12/20/2013

Xiaohua Fan

Inventor's Signature

Print full name of first inventor:

Xiaohua Fan

Residence:

Room 102, Building 53, 999 Zhenghe Road
Shanghai, 200438 CHINA

Citizenship:

CN

Mailing Address:

Same as above

I Bo Ye (name) whose residential address is
3F, Block 2, No. 252, Songhu Road, Shanghai, China
was personally present and did see Xiaohua Fan (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Bo Ye (signature of first witness)

Signed at 3F, Block 2, No. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)

I Shuziang Zhang (name) whose residential address is
3F, Block 2, No. 252, Songhu Road, Shanghai, China
was personally present and did see Xiaohua Fan (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Shuziang Zhang (signature of second witness)

Signed at 3F, Block 2, No. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)

ASSIGNMENT

WHEREAS, I, Qin Tao, as the original inventor or an original joint inventor 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

HOST ORIENTED AUTOMATIC VERIFICATION OF BEST PRACTICES

which is further identified by Attorney Docket Number 1003-285;

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 me;

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, I 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 me had this assignment and sale not been made; I 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. I 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, I hereby further agree for myself and my 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

PATENT ASSIGNMENT
Attorney Docket No.: 1003-285
EMC Docket No.: EMC-13-0671

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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14139,927 filed 12/24/2013) 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, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT
Attorney Docket No.: 1003-285
EMC Docket No.: EMC-13-0671

Date: 12/20/2013

[Signature]
Inventor's Signature

Legal name of inventor: Qin Tao
Residence: 6 Prestwick Drive
Hopkinton, MA 01748
Citizenship: US
Mailing Address: Same as above

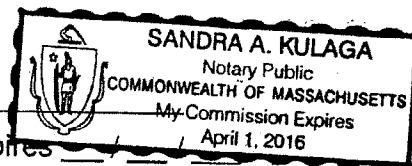
STATE/Commonwealth of COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 20 day of DECEMBER, 2013, then personally appeared before me the above-named Qin Tao 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: _____

My Commission expires _____



ASSIGNMENT

WHEREAS, I, Yuanjie Wu, as the original inventor or an original joint inventor 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

HOST ORIENTED AUTOMATIC VERIFICATION OF BEST PRACTICES

which is further identified by Attorney Docket Number 1003-285;

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 me;

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, I 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 me had this assignment and sale not been made; I 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. I 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, I hereby further agree for myself and my 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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14139,927 filed 12/24/2013) 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, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT
Attorney Docket No.: 1003-285
EMC Docket No.: EMC-13-0671

Date: 12/20/2013

Yuanjie Wu
Inventor's Signature

Print full name of first inventor:

Yuanjie Wu

Residence:

Room 502, #6 Lane 118 Zhucheng Road
Shanghai, 201100 CHINA

Citizenship:

CN

Mailing Address:

Same as above

I Bo Ye (name) whose residential address is
3F, Block 2, No. 252, Songhu Road, Shanghai, China
was personally present and did see Yuanjie Wu (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Bo Ye (signature of first witness)

Signed at 3F, Block 2, No. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)

I Shugiang Zhang (name) whose residential address is
3F, Block 2, No. 252, Songhu Road, Shanghai, China
was personally present and did see Yuanjie Wu (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Shugiang Zhang (signature of second witness)

Signed at 3F, Block 2, No. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)

ASSIGNMENT

WHEREAS, I, Xiaogang Wang, as the original inventor or an original joint inventor 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

HOST ORIENTED AUTOMATIC VERIFICATION OF BEST PRACTICES

which is further identified by Attorney Docket Number 1003-285;

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 me;

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, I 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 me had this assignment and sale not been made; I 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. I 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, I hereby further agree for myself and my 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, I 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 I hereby authorize the attorneys at Bainwood Hyang & Associates LLC to insert here in parentheses (14/139,927 filed 12/24/2013) 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, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT
Attorney Docket No.: 1003-285
EMC Docket No.: EMC-13-0671

Date: 12/20/2013

Thomas Wang Xiaogang
Inventor's Signature

Print full name of first inventor:

Xiaogang Wang

Residence:

Room 201, Building 19
Lane 768 Meihua Road
Shanghai, 201204 CHINA

Citizenship:

CN

Mailing Address:

Same as above

I Bo Ye (name) whose residential address is
3F, Block 2, NO. 252, Songhu Road, Shanghai, China
was personally present and did see Xiaogang Wang (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Bo Ye (signature of first witness)

Signed at 3F, Block 2, NO. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)

I Shugang Zhang (name) whose residential address is
3F, Block 2, No. 252, Songhu Road, Shanghai, China
was personally present and did see Xiaogang Wang (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Shugang Zhang (signature of second witness)

Signed at 3F, Block 2, No. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)

ASSIGNMENT

WHEREAS, I, Dazhi Dong, as the original inventor or an original joint inventor 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

HOST ORIENTED AUTOMATIC VERIFICATION OF BEST PRACTICES

which is further identified by Attorney Docket Number 1003-285;

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 me;

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, I 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 me had this assignment and sale not been made; I 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. I 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, I hereby further agree for myself and my 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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (141139,927 filed 12/24/2013) 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, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT
Attorney Docket No.: 1003-285
EMC Docket No.: EMC-13-0671

Date: 12/20/2013

Dazhi Dong

Inventor's Signature

Print full name of first inventor:

Dazhi Dong

Residence:

Room 201, #60 Lane 209 Gui Du Road

Minhang District

Shanghai, 201108 CHINA

Citizenship:

CN

Mailing Address:

Same as above

I Bo Ye (name) whose residential address is
3F, Block 2, No. 252, Songhu Road, Shanghai, China
was personally present and did see Dazhi Dong (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Bo Ye (signature of first witness)

Signed at 3F, Block 2, No. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)

I Shugiang Zhang (name) whose residential address is
3F, Block 2, No. 252, Songhu Road, Shanghai, China
was personally present and did see Dazhi Dong (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

Shugiang Zhang (signature of second witness)

Signed at 3F, Block 2, No. 252, Songhu Road, Shanghai, China (location of witness signature)

on this day 12/20 of 2013. (date of signature)