

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>JEAN-PIERRE BONO</td> <td>10/11/2013</td> </tr> <tr> <td>HIMABINDU TUMMALA</td> <td>10/11/2013</td> </tr> <tr> <td>ASSAF NATANZON</td> <td>10/13/2013</td> </tr> </tbody> </table>		Name	Execution Date	JEAN-PIERRE BONO	10/11/2013	HIMABINDU TUMMALA	10/11/2013	ASSAF NATANZON	10/13/2013
Name	Execution Date								
JEAN-PIERRE BONO	10/11/2013								
HIMABINDU TUMMALA	10/11/2013								
ASSAF NATANZON	10/13/2013								
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>14041191</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14041191				
Property Type	Number								
Application Number:	14041191								
CORRESPONDENCE DATA									
Fax Number:	(508)366-4688								
Phone:	5086162900								
Email:	docketing@bainwoodhuang.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	BRUCE D. RUBENSTEIN, ESQ.								
Address Line 1:	BAINWOOD, HUANG & ASSOCIATES, LLC								
Address Line 2:	2 CONNECTOR ROAD								
Address Line 4:	WESTBOROUGH, MASSACHUSETTS 01581								
ATTORNEY DOCKET NUMBER:	1003-264								
NAME OF SUBMITTER:	BRUCE D. RUBENSTEIN, ESQ.								
Signature:	/Bruce D. Rubenstein #39,349/								

Date:

11/19/2013

Total Attachments: 9

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ASSIGNMENT

WHEREAS, I, Jean-Pierre Bono, 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:

SYNCHRONOUS REPLICATION OF VIRTUALIZED STORAGE PROCESSORS

which is further identified by Attorney Docket Number 1003-264;

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 (14/041,191 filed on 09/30/2013) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal as set forth below:

Date: 10/11/13




Inventor's Signature

Legal name of inventor: Jean-Pierre Bono
Residence: 33 Wachusett View Drive
Westborough, MA 01581
Citizenship: US
Mailing Address: Same as above

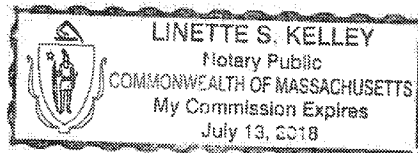
STATE/COMMONWEALTH OF Massachusetts
COUNTY OF Middlesex

On this 11th day of October, 2013, then personally appeared before me the above-named **Jean-Pierre Bono** 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: Linette S. Kelley
My Commission expires 7/13/2018



ASSIGNMENT

WHEREAS, I, Himabindu Tummala, 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:

SYNCHRONOUS REPLICATION OF VIRTUALIZED STORAGE PROCESSORS

which is further identified by Attorney Docket Number 1003-264;

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

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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;

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IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal as set forth below:

Date: 10/11/2013

[Signature]
Inventor's Signature

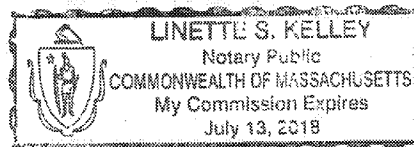
Legal name of inventor: Himabindu Tummala
Residence: 19 Pratt Street
South Grafton, MA 01560
Citizenship: IN
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 11th day of October, 2013, then personally appeared before me the above-named **Himabindu Tummala** 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: Linette S Kelley
My Commission expires 7/13/2018



ASSIGNMENT

WHEREAS, I, Assaf Natanzon, 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:

SYNCHRONOUS REPLICATION OF VIRTUALIZED STORAGE PROCESSORS

which is further identified by Attorney Docket Number 1003-264;

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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;

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AND I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14/041,191 filed on 09/30/2013) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT
Attorney Docket No.: 1003-264
EMC Docket No.: EMC-13-0334

Date: 13/10/2013

[Signature]
Inventor's Signature

Print full name of first inventor: Assaf Natanzon
Residence: 95 Levanon Street
Tel Aviv 69345
ISRAEL
Citizenship: IL
Mailing Address: Same as above

I Ron Cooper (name) whose residential address is
52 Levanon St. Tel-Aviv, Israel
was personally present and did see Assaf Natanzon (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

[Signature] (signature of first witness)
Signed at Hertzlia (location of witness signature)
on this day 13/10 of 2013. (date of signature)

I Rona Lankry (name) whose residential address is
Tel Aviv, Israel
was personally present and did see Assaf Natanzon (name
of person signing the assignment) who is personally known to me, execute the above
assignment.

[Signature] (signature of second witness)
Signed at Hertzlia (location of witness signature)
on this day 13/10 of 2013. (date of signature)