502381913 06/12/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jean-Pierre Bono	05/21/2013
Frederic Corniquet	05/21/2013
Miles A. de Forest	05/20/2013
Himabindu Tummala	05/22/2013
Walter C. Forrester	05/30/2013

RECEIVING PARTY DATA

Name:	EMC Corporation
Street Address:	176 South Street
City:	Hopkinton
State/Country:	MASSACHUSETTS
Postal Code:	01748

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13838540

CORRESPONDENCE DATA

Fax Number: 5083664688

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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

NAME OF SUBMITTER: Signature:	David E. Huang, Esq. /David E. Huang/	PATENT
ATTORNEY DOCKET NUMBER:	1003-213	

502381913 REEL: 030597 FRAME: 0968

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Date:	06/12/2013
Date: Total Attachments: 15 source=1003-213 - Executed Assignment-Ir	nv1#page1.tif nv1#page3.tif nv2#page1.tif nv2#page2.tif nv2#page2.tif nv2#page3.tif nv3#page1.tif nv3#page1.tif nv3#page2.tif nv3#page2.tif nv3#page2.tif nv4#page3.tif nv4#page1.tif
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PATENT REEL: 030597 FRAME: 0969

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

ASSIGNMENT

WHEREAS, I, <u>Jean-Pierre Bono</u>, 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

VIRTUAL STORAGE PROCESSOR FAILOVER

which is further identified by Attorney Docket Number 1003-213;

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;

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

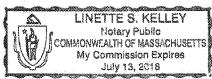
applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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 (13/838, 540 filed 03/15/2013) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

Date:	5/21/13	
		Inventor's Signature
Legal name of	inventor:	Jean-Pierre Bono
Residence:		33 Wachusett View Drive
		Westborough, MA 01581
Citizenship:		US
Mailing Addres	ss:	Same as above
STATE/COMM	MONWEALTH OF	lassachusetts Liddlesex
the foregoing	named <u>Jean-Pierre Bono</u> X] employee identification t	, 2013, then personally appeared before known to me through satisfactory evidence of card; [] driver's license; [] (other) to be the person whose name is subscribed to dged that he/she executed the same as his/her in contained.
		Liette S. Kelles
		Notary Public
		Print Name: Linette S. Kelley
		My Commission expires 7 / 13 / 2018
		• ·



Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

ASSIGNMENT

WHEREAS, I, <u>Frederic Corniquet</u>, 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

VIRTUAL STORAGE PROCESSOR FAILOVER

which is further identified by Attorney Docket Number 1003-213;

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 filling 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;

PATENT ASSIGNMENT Attorney Docket No.: 1003-213

EMC Docket No.: EMC-12-907

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;

EMC Docket No.: EMC-12-907 Date: MAY 2013 s Signature Frederic Contig Print full name of first inventor: Residence: 13 Allee des Tennis Le Pecq, 78230 FRANCE Citizenship: FR Mailing Address: Same as above (name) whose residential address is 78370 PLAISIR FRANCE 3 RULJULS REGNIER was personally present and did see Frederic Coknigue (name of person signing the assignment) who is personally known to me, execute the above assignment. _____ (signature of first witness) Signed at BF20NS FRANCE (location of witness signature) on this day 91 MAY of 2013. (date of signature) _ (name) whose residential address is I MARC AIRAGNES 41 RUE DE GLATIGNY 78150 LE CHESNAY FRANCE was personally present and did see FREGRIC CORNIGUET (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at BEZONS FRANCE _____ (location of witness signature)

94 업유섯, of 2013. (date of signature)

on this day

PATENT ASSIGNMENT

Attorney Docket No.: 1003-213

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

ASSIGNMENT

WHEREAS, I, <u>Miles A. de Forest</u>, 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

VIRTUAL STORAGE PROCESSOR FAILOVER

which is further identified by Attorney Docket Number 1003-213;

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;

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

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;

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

Date: 5/20/13	WA defalt
	T Inventor's Signature
Legal name of inventor:	Miles A. de Forest
Residence:	6921 Iron Gate Drive
	Bahama, NC 27503
Citizenship:	US
Mailing Address:	Same as above
	M Carolina Nam
me the above-named Miles A. de Forest identification [] employee identification to the foregoing Assignment and acknowled	be the person whose name is subscribed to ged that he/she executed the same as his/her
free act and deed for the purposes therein	n contained.

Print Name:

Notary Public

Tiffany Hinton

My Commission expires O1 /26/208

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

ASSIGNMENT

WHEREAS, I, <u>Himabindu Tummala</u>, 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

VIRTUAL STORAGE PROCESSOR FAILOVER

which is further identified by Attorney Docket Number 1003-213;

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;

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

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AND I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (13/838,540 filed 03/15/2013) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

Date: 5/22/2013	Bude
	Inventor's Signature
Legal name of inventor:	Himabindu Tummala
Residence:	19 Pratt Street
	South Grafton, MA 01560
Citizenship:	IN The second of
Mailing Address:	Same as above
STATE/COMMONWEALTH OF	25sachusetts
COUNTY OF <u>M</u>	ddlesex
me the above-named <u>Himabindu Tumma</u> of identification [X] employee identification to	be the person whose name is subscribed to ged that he/she executed the same as his/her
	Justle S. Killey
	Notary Public
	Print Name: Linette S. Kelley
	My Commission expires 67 / 13 / 2618
	LINETTE S. KELLEY Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires July 13, 2018

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

ASSIGNMENT

WHEREAS, I, <u>Walter C. Forrester</u>, 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

VIRTUAL STORAGE PROCESSOR FAILOVER

which is further identified by Attorney Docket Number 1003-213;

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;

PATENT ASSIGNMENT Attorney Docket No.: 1003-213

EMC Docket No.: EMC-12-907

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 (13/838,540) 1/6/2013 the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Attorney Docket No.: 1003-213 EMC Docket No.: EMC-12-907

Date: Inventor's Signature Walter C. Forrester Legal name of inventor: Residence: 21 Magnum Court Berkeley Heights, NJ 07922 Citizenship: US Mailing Address: Same as above STATE/COMMONWEALTH OF COUNTY OF , 2013, then personally appeared before day of me the above-named Walter C. Forrester known to me through satisfactory evidence of identification [] employee identification card; [X] driver's license; [] (other) to be the person whose name is subscribed to . Loviester 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:

> MARY E. LEONARD NOTARY PUBLIC OF NEW JERSEY MY COMMISSION EXPIRES OCT. 18, 2017

My Commission expires 10 / 18/ 2017