

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>Edward C. Bueche</td><td>10/18/2011</td></tr><tr><td>Francisco Borges</td><td>11/14/2011</td></tr><tr><td>Petr Pleshachkov</td><td>11/04/2011</td></tr><tr><td>Shanshan Quan</td><td>10/14/2011</td></tr><tr><td>Marc Brette</td><td>10/25/2011</td></tr><tr><td>Venkatesan Chandrasekaran</td><td>10/18/2011</td></tr></tbody></table>		Name	Execution Date	Edward C. Bueche	10/18/2011	Francisco Borges	11/14/2011	Petr Pleshachkov	11/04/2011	Shanshan Quan	10/14/2011	Marc Brette	10/25/2011	Venkatesan Chandrasekaran	10/18/2011
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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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Application Number:	13161666														
CORRESPONDENCE DATA															
Fax Number: (415)705-6383															
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Email: rking@dergnoah.com															
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name: Todd A. Noah															
Address Line 1: Three Embarcadero Center, Suite 410															
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ATTORNEY DOCKET NUMBER:	965-11-030														

501735597

PATENT
REEL: 027282 FRAME: 0639

CH \$40.00 13161666

NAME OF SUBMITTER:

Todd A. Noah

Total Attachments: 8

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ASSIGNMENT

WHEREAS, We, Edward C. Bueche, Francisco Borges, Petr Pleshachkov, Shanshan Quan, Marc Brette and Venkatesan Chandrasekaran 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 METHOD AND SYSTEM FOR CONFIGURING A MULTI-PATH INDEX, 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 June 16, 2011 as U.S. Application No. 13/161,666;

☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the

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

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 10/18/2011

Edward C. Bueche

Inventor's Signature

Print full name of first inventor:

Edward C. Bueche

Residence:

5066 Independence Dr.

Pleasanton, CA 94566

Citizenship:

United State of America

Mailing Address:

Same as above

STATE OF CA
COUNTY OF Alameda

On this 18 day of October, 2011, before me appeared Edward C. Bueche who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

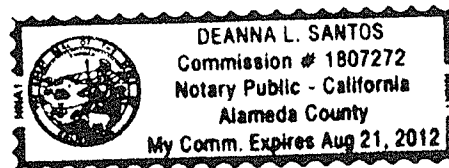
WITNESS my hand and official seal.

Deanna L. Santos

Notary Public

Print Name: Deanna L. Santos

My Commission expires 8/21/2012



Date: Nov. 14th 2011

Francisco Borges
Inventor's Signature

Print full name of second inventor:

Francisco Borges

Residence:

3, place des Pyramides

Citizenship:

Paris, France 75001

Italy

Mailing Address:

Same as above

I Liefke Reitsma (name) whose residential address is
3, place des Pyramides Paris, FRANCE 75001
was personally present and did see FRANCISCO BORGES (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Liefke Reitsma (signature of first witness)

Signed at PARIS (location of witness signature)

on this day November 14th of 2011 (date of signature)

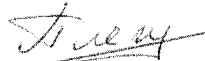
I Mario Antonio Dellatorre Borges (name) whose residential address is
Marechal Deodoro 1807, Rib Preto, SP, BRAZIL
was personally present and did see FRANCISCO BORGES (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Mario Antonio Dellatorre Borges (signature of second witness)

Signed at November 14th, Paris (location of witness signature)

on this day November 14th of 2011 (date of signature)

Date: 4 November 2011



Inventor's Signature

Print full name of third inventor:

Petr Pleshachkov

Residence:

Jaap Hoekdreef 98
The Hague, Netherlands 2492JS

Citizenship:

Russian Federation

Mailing Address:

Same as above

I Orlova TATIANA (name) whose residential address is
Jaap Hoekdreef 98, 2492 JS Den Haag
was personally present and did see Pleshachkov P. (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Orlova (signature of first witness)

Signed at Den Haag (location of witness signature)

on this day 4 November of 2011. (date of signature)

I Zubanov Nikolay (name) whose residential address is
Simon Carmiggelthof 246, 2492 JN, Den Haag, Netherlands
was personally present and did see Pleshachkov P. (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Zubanov (signature of second witness)

Signed at Den Haag (location of witness signature)

on this day 4 November of 2011. (date of signature)

Date: 10/14, 2011

Shanshan Quan

Inventor's Signature

Print full name of fourth inventor:

Shanshan Quan

Residence:

2F., Building 2, KIC Plaza, No. 252, Songhu Rd
Shanghai, China 200433

Citizenship:

China

Mailing Address:

Same as above

I HUADING WANG (name) whose residential address is
Room 513 Building 33 No. 2419 Hongqiao Rd. Shanghai, P.R. China
was personally present and did see Shanshan Quan (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at EMC Shanghai office (location of witness signature)

on this day 14, OCT of 20 11. (date of signature)

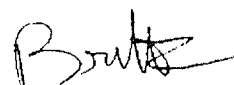
I Qi Jiang (name) whose residential address is
Qiyang Rd. No. 501 Shanghai, China
was personally present and did see Shanshan Quan (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at EMC Shanghai office (location of witness signature)

on this day 10/14 of 20 11 (date of signature)

Date: 25th October 2011



Inventor's Signature

Print full name of fifth inventor:

Marc Brette

Residence:

17 rue de la republique

Domene, France 38420

Citizenship:

France

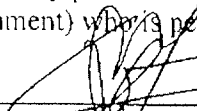
Mailing Address:

Same as above

I CHEVALIER Pierre Yves (name) whose residential address is

699 chemin du Bocuf, Buvens, France

was personally present and did see Marc BRETTE (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

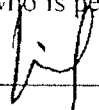
Signed at Meylan, France (location of witness signature)

on this day 25th October of 2011. (date of signature)

I GINZBURG ILAN (name) whose residential address is

LA REINA 38660 ST PANCRASSE FRANCE

was personally present and did see MARC BRETTE (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at Meylan FRANCE (location of witness signature)

on this day 25 OCTOBER of 2011. (date of signature)

Date: Oct 18 2011

Venkatesan Chandrasekaran
Inventor's Signature

Print full name of sixth inventor:

Venkatesan Chandrasekaran

Residence:

2643 Calle Morelia

Pleasanton, CA 94566

Citizenship:

United State of America

Mailing Address:

Same as above

STATE OF CA
COUNTY OF Alameda

On this 18 day of October, 2011, before me appeared Venkatesan Chandrasekaran who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Deanna J. Santos
Notary Public

Print Name: Deanna L. Santos

My Commission expires 8 / 21 / 2012

