

PATENT ASSIGNMENT

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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>David A. Gillam</td> <td>04/20/2012</td> </tr> <tr> <td>Ameer M. Jabbar</td> <td>04/16/2012</td> </tr> <tr> <td>Anurag Jain</td> <td>04/20/2012</td> </tr> <tr> <td>Stephen A. Mendes</td> <td>04/18/2012</td> </tr> <tr> <td>Sukesh Kumar Biddappa</td> <td>04/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	David A. Gillam	04/20/2012	Ameer M. Jabbar	04/16/2012	Anurag Jain	04/20/2012	Stephen A. Mendes	04/18/2012	Sukesh Kumar Biddappa	04/12/2012
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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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CORRESPONDENCE DATA													
<p>Fax Number:</p> <p>Phone: 781-401-9988</p> <p>Email: rcp@dc-m.com</p> <p><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: Daly, Crowley, Mofford & Durkee, LLP</p> <p>Address Line 1: 354A Turnpike Street - Suite 301A</p> <p>Address Line 4: Canton, MASSACHUSETTS 02021</p>													
ATTORNEY DOCKET NUMBER:	EMC-137PUS												
NAME OF SUBMITTER:	Paul D. Durkee												

CH \$40.00 13435049

Total Attachments: 6

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PATENT

REEL: 028095 FRAME: 0735

ASSIGNMENT

WHEREAS, we, David A. Gillam, Ameer M. Jabbar, Anurag Jain, Stephen A. Mendes and Sukesh Kumar Biddappa 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 APPARATUS FOR TOPOLOGY DRIVEN ZONING, 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 March 30, 2012 as U.S. Application No. 13/435,049;
- ☐ 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:

4/20/2012

David A. Gillam

Inventor's Signature

Print full name of first inventor: David A. Gillam

Residence: The Colony, TX

Citizenship: U.S.

Mailing Address: 5701 Spring Hollow Lane, The Colony, TX 75056

STATE/Commonwealth of

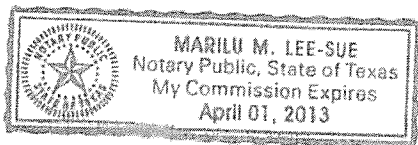
TEXAS

COUNTY OF

COLLIN

On this 20 day of APRIL, 2012 then personally appeared before me the above-named _____ 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.



Marilu M. Lee-Sue

Notary Public

Print Name: Marilu M. Lee-Sue

My Commission expires 04/01/2013

PATENT/Joint Assignment
Attorney Docket No.: EMC-137PUS
EMC Docket No.: EMC-12-050

Date: 04/20/2012

Anurag Jain
Inventor's Signature

Print full name of third inventor: Anurag Jain

Residence: Murphy, TX

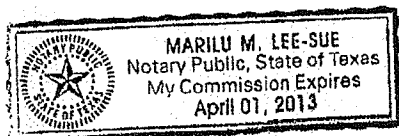
Citizenship: India

Mailing Address: 301 Ponderosa Trail, Murphy, TX 75094

STATE/Commonwealth of
COUNTY OF


TEXAS
COLLIN

On this 20 day of APRIL, 2012, then personally appeared before me the
above-named _____ 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.



Marilu M. Lee-Sue
Notary Public
Print Name: Marilu M. Lee-Sue
My Commission expires 04/01/2013

Date: APRIL 12th, 2012


Inventor's Signature

Print full name of fifth inventor: Suresh Kumar Biddappa

Residence: Murphy, TX

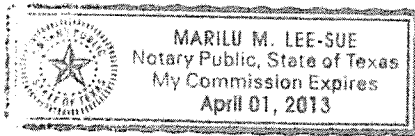
Citizenship: India

Mailing Address: 403 Lakehurst Drive, Murphy, TX 75094

STATE/Commonwealth of TEXAS
County of COLLIN

On this 12 day of April, 2012, then personally appeared before me the above-named ✓ 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.



Martha M. Lee-Sue
Notary Public

Print Name: Marilu M. Lee-Sue

My Commission expires 04/01/2013

Date:

April 18, 2012

Stephen A. Mendes
Inventor's Signature

Print full name of fourth inventor: Stephen A. Mendes

Residence: Wellesley, MA

Citizenship: U.S.

Mailing Address: 346 Linden Street, Wellesley, MA 02481

STATE/COMMONWEALTH OF
COUNTY OF

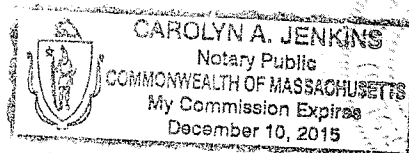
Massachusetts
Suffolk

On this 18 day of April, 2012, then personally appeared before me the above-named _____ known to me through satisfactory evidence of identification ☒ employee identification card; ☒ driver's license; ☐ (other) Stephen Mendes 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.

Carolyn A. Jenkins
Notary Public

Print Name: Carolyn A. Jenkins

My Commission expires 12/10/2015



Date:

4/16/2012


Inventor's Signature

Print full name of second inventor: Ameer M. Jabbar

Residence: Lilburn, GA

Citizenship: U.S.

Mailing Address: 1086 Rolling Forest Court, Lilburn, GA 30047

STATE/Commonwealth of
COUNTY OF

Georgia
Gwinnett

On this 16 day of April, 2012, then personally appeared before me the above-named is known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) Ameer M. Jabbar 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: Dmitry Pitel

My Commission expires 12/14/2015

