503895766 06/29/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3942416

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JEFFREY NORTON	06/29/2016
MARK D MALAMUT	06/29/2016
ERIK S HANSEN	06/29/2016
JENNIFER STARLING	06/29/2016

#### **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:	15197580

### **CORRESPONDENCE DATA**

**Fax Number:** (415)386-4623

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

 Phone:
 510-295-9328

 Email:
 lana@st-ip.com

Correspondent Name: EMC CORPORATION OUTSIDE COUNSEL STANIFOR

Address Line 1: P.O. BOX 591838

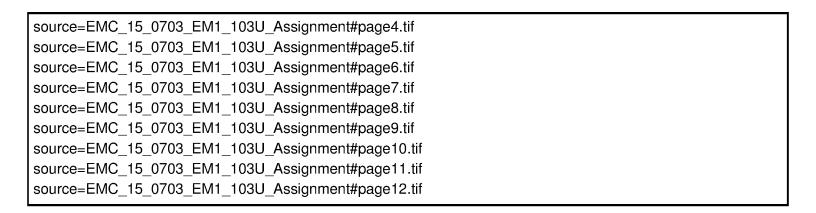
Address Line 4: SAN FRANCISCO, CALIFORNIA 94159

ATTORNEY DOCKET NUMBER:	EMC-15-0703 (EM1.103U)
NAME OF SUBMITTER:	GEOFFREY T. STANIFORD
SIGNATURE:	/GEOFFREY T. STANIFORD/
DATE SIGNED:	06/29/2016

#### **Total Attachments: 12**

source=EMC\_15\_0703\_EM1\_103U\_Assignment#page1.tif source=EMC\_15\_0703\_EM1\_103U\_Assignment#page2.tif source=EMC\_15\_0703\_EM1\_103U\_Assignment#page3.tif

PATENT 503895766 REEL: 039047 FRAME: 0386



#### ASSIGNMENT

WHEREAS, we, <u>Jeffrey Norton</u>, <u>Mark D. Malamut</u>, <u>Erik S. Hansen</u>, <u>Jennifer Starling</u> and <u>Adam Brenner</u> 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 DATABASE VIEWS FOR GRAPHS USING DYNAMIC SUBGRAPHS, the specification of which:

[X]	is being executed on even date States Patent Office;	herewith and is about to be filed in the United
[]	was filed on	as U.S. Application No;
[]	was patented under U.S. Patent	Noon

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:

•	
Print full name of first inventor:	Jeffrey Norton
Residence:	24691 Monita Circle
	Laguna Niguel, CA 92677
Citizenship:	US
Mailing Address:	Same as above
who proved to me on the basis of satisfactory subscribed to the within instrument and acknown in his/her/their authorized capacity(ies), and the	20, before me appeared  evidence to be the person(s) whose name(s) is/are by ledged to me that he/she/they executed the same that by his/her/their signature(s) on the instrument ich the person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY und foregoing paragraph is true and correct.	der the laws of the State of California that the
WITNESS my hand and official seal.	
Please See Attached For California Compliant Acknowledgement (CA Civil Code Section 1189) 165	Notary Public  Print Name:

Commist of identification   Condition	t the triumings, eccure v. in vertill in that the interest.	<b>f</b>
On Z9 June 2016 before me, Steve Oberlander, Notary Public (new intername and other of the officer) personally appeared Jeffrey Ronald Norton  who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/ere subscribed the within instrument and acknowledged to me that he/she/shey executed the same in his/her/she/shauthorized capacity(size, and that by his/her/she/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.  Signature Well of the information in this section is not required by law it could prevent foundations removel and restrachment of this acknowledgmens to an authorized document and may prove useful to persons relying on the attached document.  Description of Attached Document  the preceding Certificate of Acknowledgment is attached to a document the purpose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document the propose of Acknowledgment is attached to a document th		
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Date: 6/29/16	Marl D. Males Inventor's Signature
Print full name of second inventor:	Mark D. Malamut
Residence:	24822 Pointe Stanhope
	Dana Point, CA 92629
Citizenship:	US
Mailing Address:	Same as above
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness accuracy, or validity of that document.  STATE OF	·
COUNTY OF	
who proved to me on the basis of satisfactory subscribed to the within instrument and acknown in his/her/their authorized capacity(ies), and the person(s), or the entity upon behalf of who I certify under PENALTY OF PERJURY under paragraph is true and correct.	20, before me appeared
WITNESS my hand and official seal.	
Please See Attached For	Notary Public
California Compliant Acknowledgement	Print Name:
(CA Civil Code Section 1188)	My Commission expires//

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A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and no the truthfulness, accuracy, or validity of that document.	
State of California )	
County of Orange )	
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Date: 06/29/2016	Ent S. Hansen
	Inventor's Signature
Print full name of third inventor:	Erik S. Hansen
Residence:	25857 Cangas
	Mission Viejo, CA 92692
Citizenship:	US
Mailing Address:	Same as above
individual who signed the document to which this certificate is attached, and not the truthfulness accuracy, or validity of that document.  STATE OF  COUNTY OF	·····
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WITNESS my hand and official seal.	
Please See Attached For	Notary Public
	Print Name:
(CA Civil Code Section 1189) 166 6/29/16	My Commission expires//

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.	THE STATE OF THE S
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I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.	STEVE OBERLANDER COMM. \$2114661 Notary Public - California
WITNESS my hand and official seal.	My Comm. Expires June 9, 2019
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Signature Steve Oberlander	(Seal)
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Date: 6/29/16	Inventor's Signature
Print full name of fourth inventor: Residence:	Jennifer Starling 26301 Loch Glen Lake Forest, CA 92630
Citizenship:	US
Mailing Address:	Same as above
who proved to me on the basis of satisfactory subscribed to the within instrument and acknown in his/her/their authorized capacity(ies), and the	20, before me appearedevidence to be the person(s) whose name(s) is/are owledged to me that he/she/they executed the same that by his/her/their signature(s) on the instrument ich the person(s) acted, executed the instrument.  The the laws of the State of California that the
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on 29 June 2016 before me, Steve Ober mere personally appeared Jennifer Lea Starling	lander, Notary Public.
personally appeared Jenniter Lea Starling -	
who proved to me on the basis of satisfactory evidence to be the personnel that within instrument and acknowledged to me that he/she/the authorized capacity(ies), and that by his/her/their signature(s) on the 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.	sy executed the same in his/her/their instrument the person(s), or the entity  STEVE OBERLANDER  COMM. #2114881  Notary Public of Communications
WITNESS my hand and official seal.	Orange County My Comm. Expires June 9, 2019
./, 8/ /	
Signature Stew Medander	(Seal)
Signature Stew Universells	(Seal)
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Date: 06/29/16.	Inventor's Signature
Print full name of fifth inventor:	Adam Brenner
Residence:	26571 Normandale Drive, #1B
	Lake Forest, CA 92630
Citizenship:	US
Mailing Address:	Same as above
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.	
STATE OF	
COUNTY OF	
On this day of,	20, before me appeared
who proved to me on the basis of satisfactory subscribed to the within instrument and acknown in his/her/their authorized capacity(ies), and the person(s), or the entity upon behalf of which which is the person in the entity upon behalf of which is the person in the entity upon behalf of which is the person in the entity upon behalf of which is the person in the entity upon behalf of which is the person in the entity upon behalf of which is the person in the entity upon behalf of which is the person in the entity upon behalf of which is the person in the p	evidence to be the person(s) whose name(s) is/are excledged to me that he/she/they executed the same hat by his/her/their signature(s) on the instrument ich the person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY und foregoing paragraph is true and correct.	ler the laws of the State of California that the
WITNESS my hand and official seal.	
Please See Attached For	Notary Public
California Compliant Acknowledgement	Print Name:
California Compliant Acknowledgement (CA Civil Code Section 1189)	My Commission expires/_/

A notary public or other officer completing this certificate verifies only the identity i	<b>.</b>
the individual who signed the document to which this certificate is attached, and in the truthfulness, accuracy, or validity of that document.	×
State of California )	
County of Orange 1	
on 29 June 2016 before me, Steve Ober personally appeared Adam Elton Brenner	lander, Notary Public
personally appeared Adam Elton Brenner -	
	ş
who proved to me on the basis of satisfactory evidence to be the per the within instrument and acknowledged to me that he/ehe/th authorized capacity(jes), and that by his/her/their signature(s) on the 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.	STEVE OBERLANDER COMM \$2114881 Notery Public - Casifornia
WiTNESS my hand and official seal.	My Comm. Expires Asso 5, 2019
2. A 20	
Signature <u>Itue Ukulander</u>	(Seal)
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PATENT REEL: 039047 FRAME: 0399

**RECORDED: 06/29/2016**