PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3942859

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| JENNIFER STARLING | 06/29/2016 |
| ADAM BRENNER | 06/29/2016 |
| JEFFREY NORTON | 06/29/2016 |
| SCOTT AUCHMOODY | 06/29/2016 |
| MARK D MALAMUT | 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: | 15197863 |

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

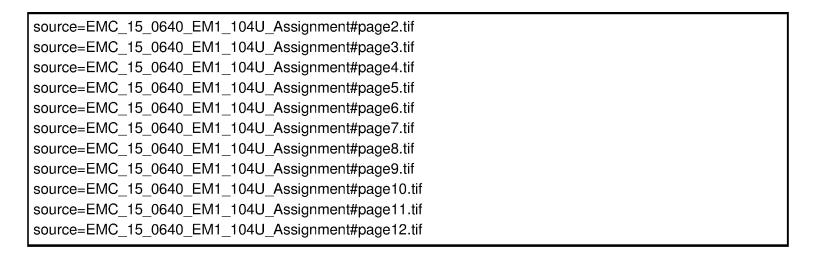
| ATTORNEY DOCKET NUMBER: | EMC-15-0640 (EM1.104U) |
|-------------------------|-------------------------|
| NAME OF SUBMITTER: | GEOFFREY T. STANIFORD |
| SIGNATURE: | /GEOFFREY T. STANIFORD/ |
| DATE SIGNED: | 06/30/2016 |

Total Attachments: 12

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PATENT REEL: 039052 FRAME: 0738

503896209



PATENT REEL: 039052 FRAME: 0739

ASSIGNMENT

WHEREAS, we, <u>Jennifer Starling</u>, <u>Adam Brenner</u>, <u>Jeffrey Norton</u>, <u>Scott Auchmoody</u> and <u>Mark D. Malamut</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 COMBINING MERKLE TREES IN GRAPH DATABASES, the specification of which:

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

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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: 6/29/16 | Inventor's Signature |
|--|---|
| Print full name of first inventor: | Jennifer Starling |
| Residence: | 26301 Loch Glen |
| | Lake Forest, CA 92630 |
| Citizenship: | US |
| Mailing Address: | Same as above |
| subscribed to the within instrument and acknown in his/her/their authorized capacity(ies), and the person(s), or the entity upon behalf of whether the person is a subscribed to the person in the entity upon behalf of whether its person is a subscribed to the within instrument and acknowledge in the person is a subscribed to the within instrument and acknowledge in the person is a subscribed to the within instrument and acknowledge in the person is a subscribed to the within instrument and acknowledge in the person is a subscribed to the within instrument and acknowledge in the person is a subscribed to the person in the person is a subscribed to the person in the person in the person is a subscribed to the person in the person in the person is a subscribed to the person in the person in the person is a subscribed to the person in the person in the person is a subscribed to the person in the person in the person is a subscribed to the person in the person in the person is a subscribed to the person in the pers | y evidence to be the person(s) whose name(s) is/are nowledged to me that he/she/they executed the same that by his/her/their signature(s) on the instrument nich the person(s) acted, executed the instrument. Ider the laws of the State of California that the |
| Please See Attached For | Notary Public |
| California Compliant Acknowledgement | Print Name: |
| (CA Civil Code Section 1189) | My Commission expires// |
| 6/29/16 | |

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| itate of California) | |
| County of <u>Orange</u>) | |
| on 29 June 2016 before me, Steve Objectsonally appeared Jennifer Lea Starling | erlander Notary Public |
| personally appeared <u>Jenniter</u> Lea Starling | |
| · <u></u> | |
| who proved to me on the basis of satisfactory evidence to be the paths within instrument and acknowledged to me that he/she/luthorized capacity(ies), and that by his/her/their signature(s) on the content of the conte | hey executed the same in his/her/the |
| he within instrument and acknowledged to me that he /she/4 | hey executed the same in his/her/the |

| | tificate of Acknowledgment is attached to a document ose of Assignment-EMC-15-0640 |
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| containing | pages, and dated |
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| ☐ Individual(s) | and the second s |
| Attomey-in-Fact | |
| Carporate Officer(| 5) |
| ☐ Guardian/Conserv | ajo. |
| Partner - Limited/I | Seneral . |
| Trustee(s) | |
| Other: | |
| representing; | |

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| Date: 06/29/16 | allen | Inventor's Signature |
|---|--|---|
| Print full name of second inventor: | Adam Bren | ner |
| Residence: | 26571 Norm | andale Drive, #IB |
| | Lake Forest, | CA 92630 |
| Citizenship: | US | |
| Mailing Address: | Same as abo | ve |
| who proved to me on the basis of satisfactors 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 person paragraph is true and correct. WITNESS my hand and official seal. | owledged to methat by his/her/ nich the person(| the person(s) whose name(s) is/are that he/she/they executed the same their signature(s) on the instrument s) acted, executed the instrument. |
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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 not the truthfulness, accuracy, or validity of that document.

| State of California) | |
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| County of Orange) | |
| | clander Notary Public |
| on 29 June 2016 before me, Steve Ober personally appeared Adam Elton Brenner — | ere insert name and liste of the officed: |
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| who proved to me on the basis of satisfactory evidence to be the per the within instrument and acknowledged to me that he/she/ti authorized capacity(ies), and that by his/her/their signature(s) on the upon behalf of which the person(s) acted, executed the instrument. | ney executed the same in his/ her/their |
| 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. 82114861 Notary Public - California Orange County My Comm. Expires June 9, 2019 |
| WITNESS my hand and official seal. | Expires June 9, 2019 |
| 2 237 2 | |
| Signature Steve Gerhander | |
| Signature Herlander Optional Information | |
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| Optional Information hough the information in this section is not required by law, it could prevent fraudulent remove authorized document and may prove useful to persons relying on the attached document. 25cription of Attached Document e preceding Certificate of Acknowledgment is attached to a document | Milliand reactachment of this acknowledgment to an Additional Information |
| Optional Information brough the information in this section is not required by law, it could prevent fraudulent remove outhorized document and may prove useful to persons relying on the attached document. Escription of Attached Document Expreceding Certificate of Acknowledgment is attached to a document ed/for the purpose of Assignment — EMC-15-0640 | Additional Enforcement Method of Signer Identification Proved to me on the basis of satisfactory evidence: |
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| Date: June 29, 2016 | helpley John |
|---|---|
| | ()Inventor's Signature |
| Print full name of third inventor: | Jeffrey Norton |
| Residence: | 24691 Monita Circle |
| | Laguna Niguel, CA 92677 |
| Citizenship: | US |
| Mailing Address: | Same as above |
| | |
| A notary public or other officer completing this sertificate 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 satisfactor subscribed to the within instrument and ack in his/her/their authorized capacity(ies), and the person(s), or the entity upon behalf of w | y evidence to be the person(s) whose name(s) is/are nowledged to me that he/she/they executed the same I that by his/her/their signature(s) on the instrument which the person(s) acted, executed the instrument. |
| foregoing paragraph is true and correct. | |
| WITNESS my hand and official seal. | |
| Pieses See Au | |
| Please See Attached For | Notary Public |
| California Compliant Acknowledgement | Print Name: |
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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 not the truthfulness, accuracy, or validity of that document. State of California On 29 June 2016 before me, Steve Oberlo (here into the personally appeared Teffey Ronald Norton) who proved to me on the basis of satisfactory evidence to be the personal or the personal of the personal or the personal | |
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| the within instrument and acknowledged to me that he/she/they authorized capacity(ies), and that by his/her/their signature(s) on the ir upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. | executed the same in his/her/their |
| Signature Meulangler | (Seal) |
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| Description of Attached Document | Additional information |
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| containing pages, and dated | Notarial event is detailed in notary journal on: Page # Entry # |
| The signer(s) capacity or authority is/are as: | Notary contact: |

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Title(s)

Name(s) of Person(s) or Emity(les) Signer is Representing

Individual(s)
Attorney-In-Fact

Trustee(s)
Other:

representing:

Corporate Officer(s)

☐ Guardian/Conservator
☐ Partner - Limited/General

| Date: 6/29/2016 | John Charles |
|--|-------------------------|
| | Inventor's Signature |
| Print full name of fourth inventor: | Scott Auchmoody |
| Residence: | 21 Gillman Street |
| | Irvine, CA 92612 |
| Citizenship: | US |
| Mailing Address: | Same as above |
| subscribed to the within instrument and ack in his/her/their authorized capacity(ies), and the person(s), or the entity upon behalf of w | |
| Please See Attached For | Notary Public |
| alifornia Compliant Acknowledgement | Print Name: |
| (CA Civil Code Section 1189) | My Commission expires// |
| 6/29/16 | |

| 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. | 3 |
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| State of California) | |
| County of Orange) | |
| on 29 June 2016 before me, Steve Ober | lander, Notary Public |
| on <u>29 June 2016</u> before me, <u>Steve Ober</u> personally appeared <u>Scott Clifford Auch mod</u> | Ody |
| | e e e e e e e e e e e e e e e e e e e |
| authorized capacity(jes), and that by his Aer/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 #2114661 |
| | Notary Public - California Orange County |
| WITNESS my hand and official seal. | My Comm. Expires June 8, 2019 |
| WITNESS my hand and official seal. Signature Steve Overlander | # North Ordina County # |

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| containing pages, and dated | Page # Entry # |
| The signer(s) capacity or authority is/are as: | Notary contact: |
| ☐ Individual(s) | Other |
| Attorney-in-Fact Corporate Officer(s) | Additional Signer(s) Signer(s) Thumbprints |
| Ricess | 0 |
| ☐ Guardian/Conservator | |
| Partner - Limited/General | |
| ☐ Trustee(s) | |
| C) Other: | |
| representing: | |
| Nametal of Personal or Entityties) Signer is Representing | |

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| Date: 6/29/16 | Mall Mallon |
|--|--|
| | Inventor's Signature |
| Print full name of fifth 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 | |
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| On this day of | , 20, before me appeared |
| subscribed to the within instrument and ackn | nowledged 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 wl | hich the person(s) acted, executed the instrument. |
| I certify under PENALTY OF PERJURY un | der the laws of the State of California that the |
| foregoing paragraph is true and correct. | and the same of the same and the mo |
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| who proved to me on the basis of satisfactory evidence to be the perso the 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. | executed the same in his/her/their |
| 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. #2114681 Notary Public - California Crange County |
| WITNESS my hand and official seal. | My Comm. Expires June 9, 2019 |
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