

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4082777

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HONGTAO DAI	09/28/2016
LEI ZHANG	09/28/2016
CHAO CHEN	09/28/2016
KUNWU HUANG	09/28/2016
JINGJING LIU	09/28/2016
YING TENG	10/03/2016
RECEIVING PARTY DATA	
Name:	EMC IP HOLDING COMPANY LLC
Street Address:	176 SOUTH ST.
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15279892
CORRESPONDENCE DATA	
Fax Number:	(713)228-8600
<i>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.</i>	
Phone:	7132288600
Email:	welsh@oshaliang.com
Correspondent Name:	OSHA LIANG LLP
Address Line 1:	909 FANNIN ST.
Address Line 2:	SUITE 3500
Address Line 4:	HOUSTON, TEXAS 77010
ATTORNEY DOCKET NUMBER:	18277/112001; EMC-16-0621
NAME OF SUBMITTER:	ALY Z. DOSSA
SIGNATURE:	/Aly Z. Dossa/
DATE SIGNED:	10/04/2016

Total Attachments: 8

source=112Assignment#page1.tif

source=112Assignment#page2.tif

source=112Assignment#page3.tif

source=112Assignment#page4.tif

source=112Assignment#page5.tif

source=112Assignment#page6.tif

source=112Assignment#page7.tif

source=112Assignment#page8.tif

ASSIGNMENT

WHEREAS, we, Hongtao Dai, Lei Zhang, Chao Chen, Kunwu Huang, Jingjing Liu and Ying Teng 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 DOCUMENT SEARCH IN STRUCTURED DOCUMENT REPOSITORIES** 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 _____ as U.S. Application No. _____;

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

WHEREAS, EMC IP Holding Company LLC (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: 2016-09-28

代漢清
Inventor's Signature

Print full name of second inventor: Hongtao Dai
Residence: China
Citizenship: China
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, Massachusetts 01748

I Jack Wang (name) whose residential address is 27, 2nd, 252, Songhu Rd, Yangpu, Shanghai
was personally present and did see Hongtao Dai (name of person signing
the assignment) who is personally known to me, execute the above assignment.

王健 (signature of first witness)

Signed at 27, 2nd, 252, Songhu Rd, Yangpu, Shanghai (location of witness signature)

on this day Sept. 28th of 20 16 (date of signature)

I Tong Ma (name) whose residential address is 27, 2nd, 252, Songhu Rd, Yangpu, Shanghai
was personally present and did see Hongtao Dai (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Ma (signature of second witness)

Signed at 27, 2nd, 252, Songhu Rd, Yangpu, Shanghai (location of witness signature)

on this day Sept. 28th of 20 16 (date of signature)

Date: 2016.9.28

Lei Zhang
Inventor's Signature

Print full name of second inventor: Lei Zhang
Residence: China
Citizenship: China
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, Massachusetts 01748

I Jack Wang (name) whose residential address is
27, 28, 252, Songha Rd, Yongpu, Shanghai
was personally present and did see Lei Zhang (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Wang (signature of first witness)

Signed at 27, 28, 252, Songha Rd, Yongpu, Shanghai (location of witness signature)

on this day Sept. 28th of 20 16 (date of signature)

I Tom Mon (name) whose residential address is
27, 28, 252, Songha Rd, Yongpu, Shanghai
was personally present and did see Lei Zhang (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Mon (signature of second witness)

Signed at 27, 28, 252, Songha Rd, Yongpu, Shanghai (location of witness signature)

on this day Sept. 28th of 20 16 (date of signature)

Date: 2016.9.28

陈超

Inventor's Signature

Print full name of second inventor: Chao Chen
Residence: China
Citizenship: China
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, Massachusetts 01748

I Jack Wang (name) whose residential address is 27.28.282, Songhu Rd, Yangpu, Shanghai
was personally present and did see Chao Chen (name of person signing
the assignment) who is personally known to me, execute the above assignment.

王健 (signature of first witness)

Signed at 27.28.282, Songhu Rd, Yangpu, Shanghai (location of witness signature)

on this day Sept. 28th of 20 16 (date of signature)

I Tong Ma (name) whose residential address is 27.28.282, Songhu Rd, Yangpu, Shanghai
was personally present and did see Chao Chen (name of person signing
the assignment) who is personally known to me, execute the above assignment.

马童 (signature of second witness)

Signed at 27.28.282, Songhu Rd, Yangpu, Shanghai (location of witness signature)

on this day Sept. 28th of 20 16 (date of signature)

Date: 2016.9.28

黄坤武
Inventor's Signature

Print full name of second inventor: Kunwu Huang
Residence: China
Citizenship: China
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, Massachusetts 01748

I Jack Wang (name) whose residential address is 27, 2nd Floor, Songhuo Rd, Yangpu, Shanghai
was personally present and did see Kunwu Huang (name of person signing the assignment) who is personally known to me, execute the above assignment.

王杰 (signature of first witness)

Signed at 27, 2nd Floor, Songhuo Rd, Yangpu, Shanghai (location of witness signature)

on this day Sept. 28th of 2016 (date of signature)

I Tong Ma (name) whose residential address is 27, 2nd Floor, Songhuo Rd, Yangpu, Shanghai
was personally present and did see Kunwu Huang (name of person signing the assignment) who is personally known to me, execute the above assignment.

马童 (signature of second witness)

Signed at 27, 2nd Floor, Songhuo Rd, Yangpu, Shanghai (location of witness signature)

on this day Sept. 28th of 2016 (date of signature)

Date: 2016.9.28

Jingjing Liu
Inventor's Signature

Print full name of second inventor: Jingjing Liu
Residence: China
Citizenship: China
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, Massachusetts 01748

I Jack Wang (name) whose residential address is 27.28.202, Longfield, York, China
was personally present and did see Jingjing Liu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Wang (signature of first witness)

Signed at 27.28.202, Longfield, York, China (location of witness signature)

on this day Sept. 28th of 2016. (date of signature)

I Tong Ma (name) whose residential address is 27.28.202, Longfield, York, China
was personally present and did see Jingjing Liu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Ma (signature of second witness)

Signed at 27.28.202, Longfield, York, China (location of witness signature)

on this day Sept. 28th of 2016. (date of signature)

Date: 10/03/16

[Signature]
Inventor's Signature

Print full name of first inventor: Ying Teng
Residence: USA
Citizenship: China
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, Massachusetts 01748

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.

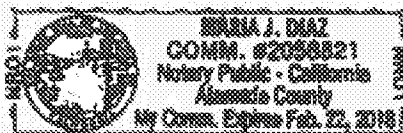
STATE OF CA
COUNTY OF Alameda

On this 3rd day of October, 2016, before me, Maria J. Diaz, Notary Public
(insert name and title of the officer)

personally appeared Ying Teng
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.



[Signature]
Notary Public
Print Name: Maria J. Diaz
My Commission expires 02/22/2018