

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
FRANK HUANG	07/25/2018
CHERAMI LIU	07/25/2018
AARON REN WANG	07/25/2018
HANSON WANG	07/25/2018
RECEIVING PARTY DATA	
Name:	EMC IP HOLDING COMPANY LLC
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16118133
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	206368.0440.5 (P276)
NAME OF SUBMITTER:	TRI C. DANG, REG. NO. 71853
SIGNATURE:	/ Tri C. Dang /
DATE SIGNED:	08/31/2018
Total Attachments: 6	
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ASSIGNMENT

WHEREAS, we, **Frank Huang, Cherami Liu, Aaron Ren Wang, and Hanson Wang**, 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 **METHODS AND SYSTEMS FOR SEARCHING DIRECTORY ACCESS GROUPS** (Application), the specification of which:

☒ [X] 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 limited liability company 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;

AND, we hereby authorize our attorneys, EMC IP Holding Company LLC, to insert here in parentheses (App. No. 16/118,133; Filed 08/30/2018) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

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

Date: July 25th. 2018

黄一帆

Inventor's Signature

Print full name of first inventor:

Frank Huang

Residence:

No. 25, Lane 1080, FuChang road, Shanghai China

Citizenship:

China

Mailing Address:

Same as above

I Yuanyi Liu (name) whose residential address is Room 302, No.9, 399 nong, Yuezhou road, Shanghai China was personally present and did see Yifan Huang (name of person signing the assignment) who is personally known to me, execute the above assignment.

刘原一

(signature of first witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 2018. (date of signature)

I Yixing Sheng (name) whose residential address is Room 1701, No. 5, 80 nong, Dehua road, Shanghai China was personally present and did see Yifan Huang (name of person signing the assignment) who is personally known to me, execute the above assignment.

盛逸馨

(signature of second witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 2018. (date of signature)

Date:

July 25, 2018



Inventor's Signature

Print full name of first inventor:

Cherami Liu

Residence:

Room 303, No. 1, 1458 nong, PuJian Road, shanghai

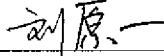
Citizenship:

China

Mailing Address:

Same as above

I Yuanyi Liu (name) whose residential address is Room 302, No 9, 399 nong, Yuezhou road, Shanghai China was personally present and did see Min Liu (name of person signing the assignment) who is personally known to me, execute the above assignment.

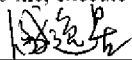


(signature of first witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 20 18 . (date of signature)

I Yixing Sheng (name) whose residential address is Room 1701, No. 5, 80 nong, Dehua road, Shanghai China was personally present and did see Min Liu (name of person signing the assignment) who is personally known to me, execute the above assignment.




(signature of second witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 20 18 . (date of signature)

PATENT/Joint Assignment
Attorney Docket No.: 206368.0440.5 (P276)
EMC Docket No.: 111581.01

Date: July 25, 2018



Inventor's Signature

Print full name of first inventor:

Aaron Ren Wang

Residence:

#33-2001 room, 399 Nong, Zhujiagang RD., Shanghai China

Citizenship:

China

Mailing Address:

Same as above

I Yuanyi Liu (name) whose residential address is Room 302, No.9, 399 nong, Yuezhou road, Shanghai China was personally present and did see Ren Wang (name of person signing the assignment) who is personally known to me, execute the above assignment.

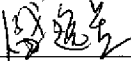


(signature of first witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 20 18 (date of signature)

I Yixing Sheng (name) whose residential address is Room 1701, No. 5, 80 nong, Dehua road, Shanghai China was personally present and did see Ren Wang (name of person signing the assignment) who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 20 18 (date of signature)

Date: July 25th 2018 王曉嵐
Inventor's Signature

Print full name of first inventor: **Hanson Wang**
Residence: Room 702, No. 5, Lane 860, HaiYang Road, Shanghai China
Citizenship: China
Mailing Address: Same as above

I Yuanyi Liu (name) whose residential address is Room 302, No.9, 399 nong, Yuezhou road, Shanghai China was personally present and did see Xiaolan Wang (name of person signing the assignment) who is personally known to me, execute the above assignment.

刘原一 (signature of first witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 20 18 (date of signature)

I Yixing Sheng (name) whose residential address is Room 1701, No. 5, 80 nong, Dehua road, Shanghai China was personally present and did see Xiaolan Wang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Sheng Yixing (signature of second witness)

Signed at No. 234, Songhu Road, Shanghai (location of witness signature)

on this day July 25th of 20 18 (date of signature)