

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHU-SHANG SAM WEI	09/01/2014
SHUAIB HASAN KHWAJA	08/19/2014
PANKAJ PRADHAN	08/18/2014
RECEIVING PARTY DATA	
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City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17965137
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SIGNATURE:	/Mark L. Berrier/
DATE SIGNED:	10/17/2022
Total Attachments: 4	
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source=OPEN5500-2 Assn_Inventors to EMC (Copy from Parent)#page4.tif	

ASSIGNMENT

COPY FROM PARENT

WHEREAS, We, Shu-Shang Sam Wei, Shuaib Hasan Khwaja and Pankaj Pradhan 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 FOR UPDATING REFERENCE COUNT AND SHARED OBJECTS IN A CONCURRENT SYSTEM, 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 June 15, 2012 as U.S. Application No. 13/524,487;
- ☐ 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: Sep 1, 2014

Shu-Shang Sam Wei
Inventor's Signature

Print full name of third inventor:

Shu-Shang Sam Wei

Residence:

2418 Marsanne Street
Danville, CA 94506

Citizenship:

U.S.

Mailing Address:

Same as above

I Meei-Ling Chen (name) whose residential address is
6651 Kings Rd. San Ramon, CA 94582
was personally present and did see Shu-Shang Sam Wei (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at 6651 Kings Rd. San Ramon, CA 94582 (location of witness signature)

on this day Sep. 1, 2014 of 2014 (date of signature)

I Chang-Jia Wang (name) whose residential address is
6651 Kings Rd. San Ramon, CA 94582
was personally present and did see Shu-Shang Sam Wei (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at 6651 Kings Rd. San Ramon, CA 94582 (location of witness signature)

on this day Sep. 1, 2014 of 2014 (date of signature)

Date: 08/19/2014

Shualb Hasan Khwaja
Inventor's Signature

Print full name of third inventor:

Shualb Hasan Khwaja

Residence:

10200 Miller Avenue, Apt. 413

Cupertino, California 95014

Citizenship:

India

Mailing Address:

Same as above

I, Seema Maheshwari (name) whose residential address is
10200 Miller Ave, Apt 413, Cupertino, CA 95014
was personally present and did see Shualb Hasan Khwaja (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Seema Maheshwari (signature of first witness)

Signed at Cupertino (location of witness signature)

on this day Aug 19th of 2014 (date of signature)

I, Sandeep Kumar (name) whose residential address is
10200 Miller Ave, Apt 413, Cupertino, CA 95014
was personally present and did see Shualb Hasan Khwaja (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Sandeep Kumar (signature of second witness)

Signed at Cupertino (location of witness signature)

on this day Aug 19th of 2014 (date of signature)

Date: 18 Aug- 2014

Pankaj Pradhan
Inventor's Signature

Print full name of third inventor: Pankaj Pradhan

Residence: C-304 VRR Heritage, Doddanekundi, ORR
Bangalore, Karnataka 560037 India

Citizenship: India

Mailing Address: Same as above

I JEK HAR VENKATESAN (name) whose residential address is #64,
JRI BALATI NILAYAM, KODICHIKKANAHALLI, BANGALORE - 560076
was personally present and did see PANKAJ PRADHAN (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at BANGALORE - EMC² (location of witness signature)

on this day 18 August of 2014 (date of signature)

I KRISHNA CHAITANYA (name) whose residential address is
#1245, DAMDRI NEPTUNITA APT, CULCOUAR ENCLAVE ROAD, MARATHAHALLI, BANGALORE
560037 was personally present and did see PANKAJ PRADHAN (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 18th August of 2014 (date of signature)