

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5481397

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PENG WU	01/31/2018
BIN DAI	01/31/2018
RONG YU	01/31/2018
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:	16387997
CORRESPONDENCE DATA	
Fax Number:	
<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:	508-898-8601
Email:	docketing@WESTBORO-IP.COM
Correspondent Name:	MUIRHEAD AND SATURNELLI, LLC
Address Line 1:	200 FRIBERG PARKWAY, SUITE 1001
Address Line 4:	WESTBOROUGH, MASSACHUSETTS 01581
ATTORNEY DOCKET NUMBER:	EMS-681USCON1
NAME OF SUBMITTER:	DANIEL P. MCLOUGHLIN
SIGNATURE:	/Daniel P. McLoughlin/
DATE SIGNED:	04/18/2019
Total Attachments: 4	
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ASSIGNMENT

WHEREAS, we, Peng WU, Bin DAI and Rong YU, 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 DATA FINGERPRINT DISTRIBUTION ON A DATA STORAGE 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 _____ as U.S. Application No. _____;
- was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC IP HOLDING COMPANY LLC (hereinafter "ASSIGNEE"), which is a corporation organized and existing under the laws of Delaware 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;

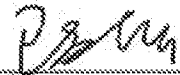
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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 attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis (16/387,997 filed April 18, 2019) 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: 1/31/2018

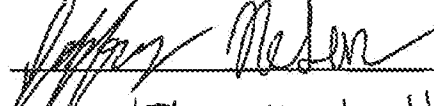

Inventor's Signature

Print full name of first inventor: Peng WU
Residence: 8 Jefferson Road
Westborough, MA 01581
Citizenship: China
Mailing Address: Same as above

I, Tao Gong (name) whose residential address is 42 Jackson Dr, Acton MA 01720 was personally present and did see Peng Wu (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)
Signed at 176 South St Hopkinton, MA (location of witness signature)
on this day January 31th of 2018. (date of signature)

I, Jeffrey Nelson (name) whose residential address is 21 Quail Ave Allston, MA 02134 was personally present and did see Peng WU (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)
Signed at 176 South St. Hopkinton, MA (location of witness signature)
on this day Jan. 31 of 2018. (date of signature)

Date: 1/31/2018

Bin Dai
Inventor's Signature

Print full name of second inventor: **Bin DAI**
Residence: 750 Farm Road
Marlborough, MA 01752
Citizenship: China
Mailing Address: 176 South Street
Hopkinton, MA 01748

I, Tao Gong (name) whose residential address is
42 Jackson Dr, Acton MA 01720 was
personally present and did see Bin Dai (name of person signing the
assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at 176 South St Hopkinton MA (location of witness signature)

on this day January 31st of 2018. (date of signature)

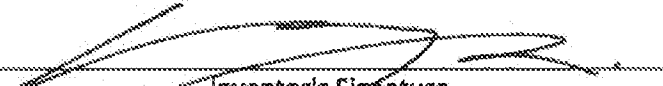
I, Jeffrey Nelson (name) whose residential address is
21 Quirk Ave Allston, MA 02134 was
personally present and did see Bin DAI (name of person signing the
assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at 176 South St Hopkinton, MA (location of witness signature)

on this day Jan 31 of 2018. (date of signature)

Date: 1/31/2018


Inventor's Signature
Rong YU

Print full name of third inventor:

Residence: 440 W Roxbury Parkway
West Roxbury, MA 02132
Citizenship: USA
Mailing Address: Same as above

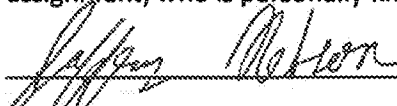
I, Tao Gong (name) whose residential address is 42 Jackson Dr, Acton MA 01720 was personally present and did see Rong Yu (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at 176 South St, Houghton MA (location of witness signature)

on this day January 31 of 2018. (date of signature)

I, Jeffrey Nelson (name) whose residential address is 21 Quitt Ave Allston MA 02134 was personally present and did see Rong Yu (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 176 South St. Houghton, MA (location of witness signature)

on this day Jan 31 of 20 18. (date of signature)