

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PENG CHEN	06/26/2017
KEVIN KUN YANG	06/23/2017
YU WEN	06/23/2017
VENOY QIANG MA	06/22/2017
HARLEY HUA WANG	06/22/2017
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:	15629612
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>	
Email:	amanda.bernier@emc.com
Correspondent Name:	EMC IP HOLDING COMPANY LLC
Address Line 1:	176 SOUTH STREET
Address Line 4:	HOPKINTON, MASSACHUSETTS 01748
ATTORNEY DOCKET NUMBER:	EMC-16-0023.02
NAME OF SUBMITTER:	AMANDA M. BERNIER
SIGNATURE:	/Amanda M. Bernier/
DATE SIGNED:	07/13/2017
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Peng Chen, Kevin Kun Wen, Yu Wen, Venoy Qiang Ma and Harley Hua, 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 APPARATUS FOR ADJUSTING THROUGHPUT OF STORAGE DEVICE* (Application), 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 21, 2017 as U.S. Application No. 15/629,612;
- 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 State 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 our attorneys, EMC IP HOLDING COMPANY LLC, to insert here in parenthesis (15/629,612 filed June 21, 2017) 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: June 26 2017

Peng Chen
Inventor's Signature

Print full name of inventor

Peng Chen

Residence

Room 11-22, Unit 3, Building 9, No. 12

610041 Chengdu, CN

Citizenship

CN

Mailing Address

Same as above

I, zhuo chen (name of first witness), whose residential address is
shengbang Road #333, High Tech district, Chengdu, Sichuan, China
was personally present and did see Peng Chen (name of person signing the assignment), who is
personally known to me, execute the above assignment.

zhuo chen (Signature of first witness)
Signed at EMC China COE, Chengdu office (location of witness signature)
on this day, 22nd June, 2017 (date of signature).

I, Victor Zhang (name of second witness), whose residential address is
Huanren Road #36, Jingliang district Chengdu, Sichuan China
was personally present and did see Peng Chen (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Victor Zhang (Signature of second witness)
Signed at EMC China COE, Chengdu office (location of witness signature)
on this day, 22nd June, 2017 (date of signature).

Date: Jun 23, 2017

Kevin Kun Yang
Inventor's Signature

Print full name of inventor

Kevin Kun Yang

Residence

Jincheng Institution of Sichuan University

610000 Chengdu, CN

Citizenship

CN

Mailing Address

Same as above

I, Victor Zhang (name of first witness), whose residential address is
~~Hua Ren Road #36, Jingliang district, Chengdu, Sichuan, China~~
was personally present and did see Kevin Kun Yang (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Victor Zhang (Signature of first witness)

Signed at EMC China COE, Chengdu office (location of witness signature)

on this day, 23rd, June, 2017 (date of signature).

I, Victor Zhang (name of second witness), whose residential address is
~~Hua Ren Road #36, Jingliang district~~ Shengbang Road #333, High tech
was personally present and did see Kevin Kun Yang (name of person signing the assignment), district
who is personally known to me, execute the above assignment. Chengdu Sichuan, China

Zhuo Chen (Signature of second witness)

Signed at EMC China COE, Chengdu office (location of witness signature)

on this day, 22nd, June, 2017 (date of signature).

Date: 2017/6/23

Yu Wen
Inventor's Signature

Print full name of inventor

Yu Wen

Residence

Room 601, Unit 3, No. 101 Xinman Roa

Wuhou District

610000 Chengdu, CN

Citizenship

CN

Mailing Address

Same as above

I, Victor Zhang (name of first witness), whose residential address is
Huan Run Road 36#, Lingjiang district, Chengdu, Sichuan, China
was personally present and did see Yu Wen (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Victor Zhang (Signature of first witness)
Signed at EMC China COE, Chengdu office (location of witness signature)
on this day, 23rd June, 2017 (date of signature).

I, Zhuo Chen (name of second witness), whose residential address is
Shengbang Road #333, High Tech district, Chengdu, Sichuan, China
was personally present and did see Yu Wen (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Zhuo Chen (Signature of second witness)
Signed at EMC China COE, Chengdu office (location of witness signature)
on this day, 22nd June, 2017 (date of signature).

Date: June 22, 2017

Venoy Qiang Ma
Inventor's Signature

Print full name of inventor

Venoy Qiang Ma

Residence

Room 822201, No 169, Second Binhe Road,
Huayang town, Shuangliu County
610000 Chengdu, CN

Citizenship

CN

Mailing Address

Same as above

I, zhuo chen (name of first witness), whose residential address is
Shengbang Road, #333, High tech district, Chengdu, Sichuan, China
was personally present and did see Venoy Qiang Ma (name of person signing the assignment),
who is personally known to me, execute the above assignment.

zhuo chen (Signature of first witness)

Signed at EMC China COE, Chengdu office (location of witness signature)

on this day, 22nd, June, 20 17 (date of signature).

I, Victor Zhang (name of second witness), whose residential address is
Huan Ren Road #36, Lingliang district Chengdu, Sichuan Province
was personally present and did see Venoy Qiang Ma (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Victor Zhang (Signature of second witness)

Signed at EMC China COE, Chengdu office (location of witness signature)

on this day, 22nd June, 20 17 (date of signature).

Date: 6/22/2017

Harley Wang
Inventor's Signature

Print full name of inventor

Harley Hua Wang

Residence

St Shengbang 333, Hight Tech District

610041 Chengdu, CN

Citizenship

CN

Mailing Address

Same as above

I, Zhuo Chen (name of first witness), whose residential address is
Shengbang Road #333, High Tech district, Chengdu, Sichuan, China
was personally present and did see Harley Hua Wang (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Zhuo Chen (Signature of first witness)

Signed at EMC China COE, Chengdu office (location of witness signature)
on this day, 22nd June, 2017 (date of signature).

I, Victor Zhang (name of second witness), whose residential address is
Hua Run Road #36, Jingliang district Chengdu, Sichuan China
was personally present and did see Harley Hua Wang (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Victor Zhang (Signature of second witness)

Signed at EMC China COE, Chengdu office (location of witness signature)
on this day, 22nd June, 2017 (date of signature).