

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| WILLA LANG YUAN | 10/10/2019 |
| CHARK WENSHUAI YU | 10/10/2019 |
| 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: | 16600310 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | THOMAS WATSON |
| SIGNATURE: | /Thomas Watson/ |
| DATE SIGNED: | 10/11/2019 |
| Total Attachments: 4 | |
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ASSIGNMENT

WHEREAS, we, Willa Lang Yuan and Chark Wenshuai 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 METHOD, DEVICE, AND COMPUTER PROGRAM PRODUCT FOR MANAGING 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"), 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.

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

Date: 2019.10.10

Willa Yuan
Inventor's Signature

Print full name of first inventor: **Willa Lang Yuan**
Residence: Shanghai, China
Citizenship: China
Mailing Address: Room 403, Building 52, 510 SanMen Road,
Shanghai, China, 200433

I Chen You (name) whose residential address is
No. 252, Songhu Road, Shanghai, China
was personally present and did see Willa Lang Yuan (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Chen You (signature of first witness)

Signed at Shanghai (location of witness signature)

on this day 10/10 of 2019. (date of signature)

I Zhang Kang (name) whose residential address is
No. 234 Songhu Road, Shanghai, China
was personally present and did see Willa Lang Yuan (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Zhang Kang (signature of second witness)

Signed at Shanghai (location of witness signature)

on this day 10/10 of 2019 (date of signature)

Date: 2019.10.10

Chark Yu
Inventor's Signature

Print full name of second inventor: **Chark Wenshuai Yu**
Residence: Shanghai, China
Citizenship: China
Mailing Address: Room 901, No. 176, Lane 85, GuTai Road,
Shanghai, China, 201900

I Chen You (name) whose residential address is
No. 252, Songhu Road, Shanghai, China
was personally present and did see Chark Wenshuai Yu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Chen You (signature of first witness)

Signed at Shanghai (location of witness signature)

on this day 10/10 of 2019. (date of signature)

I Zhang Kang (name) whose residential address is
No. 236 Songhu Road, Shanghai, China
was personally present and did see Chark Wenshuai Yu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Zhang Kang (signature of second witness)

Signed at Shanghai (location of witness signature)

on this day 10/10 of 2019. (date of signature)