

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHAOJUN ZHAO	07/13/2020
HONGYUAN ZENG	07/13/2020
KAI LI	07/13/2020
SHUANGSHUANG LIANG	07/13/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC IP HOLDING COMPANY LLC
<b>Street Address:</b>	176 SOUTH STREET
<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16935974
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(508)366-4688
<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>	
<b>Phone:</b>	508-616-2900
<b>Email:</b>	Docket@BainwoodHuang.com
<b>Correspondent Name:</b>	BAINWOOD, HUANG & ASSOCIATES, LLC
<b>Address Line 1:</b>	2 CONNECTOR ROAD
<b>Address Line 4:</b>	WESTBOROUGH, MASSACHUSETTS 01581
<b>ATTORNEY DOCKET NUMBER:</b>	1003-1092
<b>NAME OF SUBMITTER:</b>	DAVID E. HUANG, ESQ.
<b>SIGNATURE:</b>	/David E. Huang, Reg. No. 39,229/
<b>DATE SIGNED:</b>	08/11/2020
<b>Total Attachments: 8</b>	
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source=1003-1092-Executed-Assignment-Inv4#page2.tif

**ASSIGNMENT**

**WHEREAS**, I, Chaojun Zhao, as the original inventor or an original joint inventor 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 SPACES**

which is further identified by Attorney Docket Number 1003-1092;

**WHEREAS**, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a limited liability company organized and existing under the laws of the state of Delaware and having a usual place of business at 176 South Street, Hopkinton, MA, 01748, USA, desires to acquire an interest therein in accordance with agreements duly entered into with me;

**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, I 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 me had this assignment and sale not been made; I 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. I 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**, I hereby further agree for myself and my 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**, I 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** I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses

( 16/935,974 , filed 7/22/20 )

the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Date: July 13, 2020

/ Chaojun Zhao /  
Inventor's Signature

Legal name of inventor:

Chaojun Zhao

Residence:

22-1-7, Fortune Times, Yingchun Rd.  
Chengdu, 610000  
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

CN

**ASSIGNMENT**

**WHEREAS**, I, Hongyuan Zeng, as the original inventor or an original joint inventor 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

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Date: July 13, 2020

/ Hongyuan Zeng /  
Inventor's Signature

Legal name of inventor:

Hongyuan Zeng

Residence:

No. 2003, Unit 1, Building 5, No. 20-17,  
Section2  
Lushan Avenue, Tianfu New District  
Chengdu, Sichuan, 610213  
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

CN

**ASSIGNMENT**

**WHEREAS**, I, Kai Li, as the original inventor or an original joint inventor 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 SPACES**

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Date: July 13, 2020

/ Kai Li /  
Inventor's Signature

Legal name of inventor:

Kai Li

Residence:

No.333 Fengxi Avenue  
Chengdu, 611130  
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

CN



**ASSIGNMENT**

**WHEREAS**, I, Shuangshuang Liang, as the original inventor or an original joint inventor 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 SPACES**

which is further identified by Attorney Docket Number 1003-1092;

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Date: July 13, 2020

/ Shuangshuang Liang /  
Inventor's Signature

Legal name of inventor:

Shuangshuang Liang

Residence:

Dawujiang Town, Yuqing County  
Zunyi Ci, 564404  
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

CN