## 504428153 06/23/2017

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RUIYONG JIA	06/23/2017
JIAN GAO	06/23/2017
XINLEI XU	06/23/2017
LIFENG YANG	06/23/2017
YOUSHENG LIU	06/23/2017

#### **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:	15630912

### **CORRESPONDENCE DATA**

Fax Number:

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.

**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-16-0156(CN1)US	
NAME OF SUBMITTER:	AMANDA M. BERNIER	
SIGNATURE:	/Amanda M. Bernier/	
DATE SIGNED:	06/23/2017	

**Total Attachments: 7** 

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PATENT/Joint Assignment EMC Docket No.: EMC-16-0156(CN1)US

#### ASSIGNMENT

WHEREAS, we, Ruiyong Jia, Jian Gao, Lifeng Yang, Xinlei Xu and Yousheng Liu, 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 SYSTEM FOR DELIVERING MESSAGE IN STORAGE SYSTEMMETHOD AND SYSTEM FOR MANAGING STORAGE SYSTEM (Application), the specification of which:

[]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X]	was filed on June 22, 2017 as U.S. Application No. 15/630,912;
[]	was patented under U.S. Patent Noon

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,

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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 (15/630,912 filed June 22, 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: 7017.6.2}	Kuitone Jia	
	Inventor's Signature	
Print full name of inventor	Ruiyong Jia	
Residence	Room 403, Unit 1, Building 27, 105 West 3rd Ring	
	North Road, HaiDian District	
	100010 Beijing, CN	
Citizenship	CN	
Mailing Address	Same as above	
Touch Mange		
I,(nar	me of first witness), whose residential address is	
was personally present and did see Ruiyong.	me of first witness), whose residential address is  (ME YWK .: Haidiam District Beij ing Co  Jia (name of person signing the assignment), who is	
personally known to me, execute the above a		
Feng Mangyn - Signed at [Singhua Science]	(Signature of first witness)  (Signature of first witness)  (Iocation of witness signature)  (date of signature).	
on this day, / 23	20 / 7 (date of signature)	
6. 2)	(date of signature).	
	1	
1, Kiongcherg Li (name of second witness), whose residential address is  7/F, Block D, Tringhna Science Park, Haillian Dist, Beijing PPC		
· ·	Jia (name of person signing the assignment), who is	
personally known to me, execute the above a	assignment.	
Xiongchers Li	(Signature of second witness)	
Signed at 7/F, Block D, Tsinghua Seie	(location of witness signature)	
on this day, $6/3$	(Signature of second witness)  Lee Port , Mai Dion Diol, Being ft  (location of witness signature)  , 20_17 (date of signature).	

	<b>)</b>
Date: 2017.6.23	313
	Inventor's Signature
Print full name of inventor	Jian Gao
Residence	601# 16 Building Rongfeng 2008,
	Xicheng District
	100000 Beijing, CN
Citizenship	CN
Mailing Address	Same as above
was personally present and did see <u>Jian Gao</u> (r personally known to me, execute the above as:	name of person signing the assignment), who is signment.  (Signature of first witness)  (Includious Language China), who is signment.  (Signature of first witness)  (Includious Language China)  (Includious Language China)  (Signature of first witness)  (Includious Language China)  (Includious Language China)
I, Xiongcheng L. (nam VF, Block D. Tringhua Science Park was personally present and did see <u>Jian Gao</u> ( personally known to me, execute the above as	ne of second witness), whose residential address is  Hailian Dist Reiging PPC  (name of person signing the assignment), who is signment.
Signed at 7/F, Block D. Thighua Leiene	(Signature of second witness)  2 Port Hardia, Dist, Beiling PPC (location of witness signature)

Date: 2017.6.23	Xinle i Xu
	Inventor's Signature
Print full name of inventor	Xinlei Xu
Residence	6-6-602, Zhongyuan, Tiantongyuan, Changping
	100010 Beijing, CN
Citizenship	CN
Mailing Address	Same as above
I, Pul Mangyu (nan	ne of first witness), whose residential address is use powe. Hardian Dist. Beijing Mine
7/2 101 de D 15/18/11/28/11	unce Down Vo-Lian Dist. Beiling Chin
was personally present and did see Xinlei Xu	(name of person signing the assignment), who is
nerconally known to me, execute the above as	erianment
1 1	
lug Changy	(Signature of first witness)
Signed at 15 Try nua Science	Pane (location of witness signature)
on this day, $\sqrt{2}$	(Signature of first witness)  Park (location of witness signature)  20 / (date of signature).
,	
A STATE OF THE STA	
I, Xiongchang Li (nan	ne of second witness), whose residential address is
7/F, Block D. Tringhua Science	per of second witness), whose residential address is  Park, Hai Dian (2) or Beijing PC
was personally present and did see Xinlei Xu	(name of person signing the assignment), who is
personally known to me, execute the above as	ssignment.
Xiong chang Li	(Signature of second witness)
Signed at 7/F, Block D. Tringhua Seien	e Pork, Hailia (2.5) (3 e) for [ P
on this day, 6/23	(Signature of second witness)  Light (Signature of second witness)

Date:	Inventor's Signature	
Print full name of inventor	Lifeng Yang	
Residence	10-3-50A, Xingfu-jiayuan, Dongchen District	
	100062 Beijing, CN	
Citizenship	CN	
Mailing Address	Same as above	
I,		
I, Kiongchengli (nam	ne of second witness), whose residential address is , Hailian Qist, 18 eijing ffc	
7/F, 13/ock D, Tringhua Science Park	, Hailian Rist, Beijing PAC	
	ng (name of person signing the assignment), who	
is personally known to me, execute the above	assignment.	
Signed at 7/F, Block D, Tsinghua Seve	(Signature of second witness)  (Signature of second witness)  (Signature of second witness)  (Signature of second witness)  (Signature of second witness)	

# PATENT/Joint Assignment EMC Docket No.: EMC-16-0156(CN1)US

Date: 6/23/2017	Jou Shay Lin Inventor's Signature
Print full name of inventor	Yousheng Liu
Residence	Qiangyuang Road, Daxing District
	102600 Beijing, CN
Citizenship	CN
Mailing Address	Same as above
is personally known to me, execute the above	ne of first witness), whose residential address is
I, Xiongeheng Li (nan	ne of second witness), whose residential address is
7/F, Poloch D. Tsinghua Science Par	A, Hailian Dict, Beijing Pfe
was personally present and did see Yousheng	Liu (name of person signing the assignment), who
is personally known to me, execute the above	assignment.
Signed at 7/F, 13 lock D, Trighua Scie on this day.	(Signature of second witness)  The Park, Hai Dian Dian, Beijing ppc (location of witness signature)  20 17 (date of signature).

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**RECORDED: 06/23/2017** 

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