## 505972994 03/18/2020

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RUIYONG JIA	12/23/2016
JIAN GAO	12/23/2016
LIFENG YANG	12/23/2016
XINLEI XU	12/23/2016
JIBING DONG	12/23/2016

#### **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:	16780315

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	1003-776.001
NAME OF SUBMITTER:	DAVID E. HUANG, ESQ.
SIGNATURE: /David E. Huang, Reg. No. 39,229/	
DATE SIGNED:	03/18/2020

**Total Attachments: 7** 

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PATENT REEL: 052150 FRAME: 0931

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PATENT REEL: 052150 FRAME: 0932

#### ASSIGNMENT

WHEREAS, we, Ruiyong Jia, Jian Gao, Lifeng Yang, Xinlei Xu and Jibing Dong 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 MANAGING DATA ACCESS (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 December 21, 2016 as U.S. Application No. 15/386,166;
[]	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, reissue, divisional or continuation applications and preliminary or other statements and the

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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 (15/386,166 filed December 21, 2016) 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:

-2-

Date: 20/6 2 2	_ Ruijong 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
I Vineschen I	
2/2 P1-A D To Aug 6 2	(name of first witness), whose residential address is
1, 5 local 1, I sargant > Cler	ce of Mailion Deijns pre
	ong, Jia (name of person signing the assignment), who is
personally known to me, execute the abo	ve assignment.
Xiongeley Li	(signature of first witness)  Science Park, Italian, Beijing pre (location of witness signature)  , 20/6 (date of signature).
signed at 1/r, 15/10CR 17, 15 agreement	(location of witness signature)
on this day, (6/8)	, 20_16_ (date of signature).
I, Liu Youshem	(name of second witness), whose residential address is
11 1- Ulock O. Ismphua ) Creve	Yark Hardian USC Derjong
	ng. Jia (name of person signing the assignment), who is
personally known to me, execute the above	ve assignment.
Liu Youshen	(signature of second witness)
Signed at Try hun Screens Pa	?k (location of witness signature)
on this day, 12.23	, 20 / (date of signature).
•	

Date: 20/6/12/2)	Jian Clan Inventor's Signature
,	Inventor's Signature
Print full name of inventor	Jian Gao
Residence	7th Floor, Building #D, Tsinghua Science Park
	Zhongguancun Dong Road 1#, Haidian District
•	100084 Beijing, CN
Citizenship	CN
Mailing Address	Same as above
•	
I, Kiong Chers Li (nam	e of first witness), whose residential address is forth, Hai Dian, 13 eijing pre
/F, Mock D, Tsinghua science	Park, Hai Dian, 13 eijing PAC
	name of person signing the assignment), who is
personally known to me, execute the above ass	signment.
Kiongcheng Li'	signature of first witness)  ence look, How Dian (location of witness signature)  20/6 (date of signature).
Signed at 7/F, Block D. This hua Su	(location of witness signature)
on this day, 12/23,	20 <u>/6</u> (date of signature).
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I, Lin mushem (nam	e of second witness), whose residential address is
TIF Block D. Termhua Screme Park	e of second witness), whose residential address is k. Handian Dist Benjam
	name of person signing the assignment), who is
personally known to me, execute the above as	signment.
Lia Youshem	(signature of second witness)
Signed at Trampau Screen Park	(location of witness signature)
Lia Youshem  Signed at Isrughan Screen Park  on this day, 12-23	20 <u>/</u> (date of signature).

Date: 2 16. 12.23	Cofons Your
	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, Kingchen Li 7/F, Block D, Tsinglua Scie	(name of first witness), whose residential address is
was personally present and did see Lifeng	Yang (name of person signing the assignment), who is
personally known to me, execute the above	ve assignment.
W. Jan.	
Signed at 7/F, Morph D. Tsinghua Sc	(signature of first witness)  (ever perf,   will ar Beijing PPC (location of witness signature)  , 20 16 (date of signature).
on this day, 1813	, 20 <u>/6</u> (date of signature).
I, Liu Youshem.	(name of second witness), whose residential address is see Park. Haidian Dist Reijing
personally known to me, execute the above	<u>r Yang</u> (name of person signing the assignment), who is we assignment.
Lia Youshang	(signature of second witness)  (location of witness signature)  , 20/6 (date of signature).
Signed at Symphum Screen	(location of witness signature)
on this day, 17. 23	, 20 / 6 (date of signature).

Date: 12.23. 20/6	<u>χ'', (0, ' γω</u> Inventor's Signature
• • • •	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>t</i>	
I, Vingoreighi (nar	ne of first witness), whose residential address is  At, Hailian, Beijing PPC
	• • • • • • • • • • • • • • • • • • •
was personally present and did see Xinlei Xu	(name of person signing the assignment), who is
personally known to me, execute the above a	ssignment.
Via Lene I:	
2 1 2/2 Plak D. Taishua Sain	(signature of first witness) Beiting fre nce fort, Hai Dian Beiting fre (location of witness signature) 20/6 (date of signature).
Signed at 1/F, Stock D, Language 3 Ce	(location of witness signature)
on this day, 17133	20/6 (date of signature).
1 /- Vouchen	of accord with
717 17/ 12 Til Company	ne of second witness), whose residential address is ark Hardian Dist. Berjiny
	(name of person signing the assignment), who is
personally known to me, execute the above a	
personally known to me, execute the above a	osignment.
Liu Youchan	(signature of second witness)
Signed at Termina Sorens Pon	(signature of second witness)  (location of witness signature)
on this day, 12.23	20 / (date of signature).
	, <u>-(-b-</u> ( <u>Summary)</u> ,

Date: 2216-12-23	Jibhhy Kong
	Inventor's Signature
Print full name of inventor	Jibing Dong
Residence	7/F, Block D, Tsinghua Science Park
	100084 Beijing, CN
Citizenship	CN
Mailing Address	Same as above
was personally present and did see <u>Jibing D</u> personally known to me, execute the above	ame of first witness), whose residential address is  Perk, Heilian, Beijing Pre  Dong (name of person signing the assignment), who is assignment.  (signature of first witness)  Jene Perk, Hoilian Beijing Pre  Jene Perk, Hoilian Beijing Pre
on this day, (4/)	_, 20 <u>   6</u> (date of signature).
I, Liu Yousheng (no TF. Block D. Tsjughua Scjence was personally present and did see Jibing D personally known to me, execute the above	ame of second witness), whose residential address is Park Hardian Drst, Begging one (name of person signing the assignment), who is assignment.
Lity You shew.  Signed at Tsinghua Science on this day, 12.23.	(signature of second witness) (location of witness signature), 20 / /_ (date of signature).

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**RECORDED: 03/18/2020**