505300797 01/29/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5347575

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIANBIN KANG	12/17/2018
JIAN GAO	12/17/2018
JIBING DONG	12/17/2018
RUIYONG JIA	12/18/2018
XINLEI XU	12/18/2018
XIONGCHENG LI	12/18/2018

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:	16223843

CORRESPONDENCE DATA

Fax Number: (508)366-4688

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.

Phone: 508-616-2900

Email: Docket@BainwoodHuang.com

BAINWOOD, HUANG & ASSOCIATES, LLC **Correspondent Name:**

Address Line 1: 2 CONNECTOR ROAD

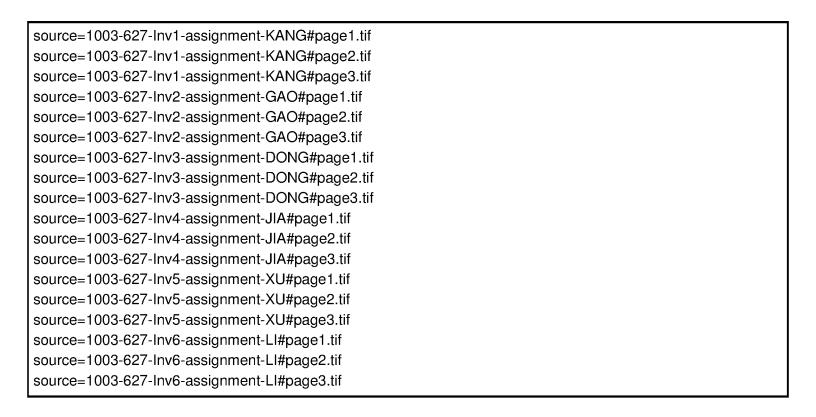
Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	1003-627
NAME OF SUBMITTER:	DAVID E. HUANG, ESQ.
SIGNATURE:	/David E. Huang, Reg. No. 39,229/
DATE SIGNED:	01/29/2019

Total Attachments: 18

PATENT REEL: 048163 FRAME: 0452

505300797



PATENT REEL: 048163 FRAME: 0453

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

ASSIGNMENT

WHEREAS, I, <u>Jianbin Kang</u>, 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 DETECTING INCOMPLETE WRITE OF DATA

which is further identified by Attorney Docket Number 1003-627;

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

PATENT REEL: 048163 FRAME: 0454

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

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

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

Date: 20[8.[2.17]	Inventor's Signature
	Inventor's Signature
Legal name of inventor:	Jianbin Kang
Residence:	#902, Building 13, Wenhui Yuan Haidian District Beijing, 100082 China (People's Republic)
Mailing Address: Citizenship:	Same as Above CN
was personally present and did se	(name) whose residential address is La Science Park Hav War Disdrut, Refising the bown to me, execute the above assignment.
120 ng po Gruo	(signature of first witness)
Signed at -/T, Blode D, T	(signature of first witness)
on this day/2 ,/ 8	of 20 <u>/</u> 8. (date of signature)
1 <u>Lei Sun</u>	(name) whose residential address is
Was porsonally present and did as	of K. Plailian Vistrict, Bejly, P.R.C.
	ee <u>Jianbin Kang</u> (name of person signing the own to me, execute the above assignment.
<u>Lei Sun</u>	(signature of second witness)
Signed at 71F. Block D. Taylura	Science Pork (location of witness signature)
	of 20 / % (date of signature)

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

ASSIGNMENT

WHEREAS, I, <u>Jian Gao</u>, 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 DETECTING INCOMPLETE WRITE OF DATA

which is further identified by Attorney Docket Number 1003-627;

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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;

Attorney Docket No.: 1003-627 Client Docket No.: 110691.02

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

Attorney Docket No.: 1003-627 Client Docket No.: 110691.02 Date: 26 8. 12. 17 Inventor's Signature Legal name of inventor: Jian Gao Residence: 3-1-705, Lianhuahe Bei Street 11 Xicheng District Beijing, 100000 China (People's Republic) Mailing Address: Same as Above Citizenship: I Hong Po Grav (name) whose residential address is

1/4, Phod P, Tornhua Sevence Powle, Has Dran Prstrict, Berjing was personally present and did see Jian Gao (name of person signing the assignment) who is personally known to me, execute the above assignment. Hong Po Gao. (signature of first witness) Signed at 7/4, Block 1), TSP (location of witness signature) on this day ________ of 20 /8. (date of signature) I _____ (name) whose residential address is 7/F. Block D. Tong hua Science Park, Han Dion District, Berjing, P.R.C. was personally present and did see Jian Gao (name of person signing the assignment) who is personally known to me, execute the above assignment. Lea Sun (signature of second witness) Signed at 7/F, Block D, Tsighua Science Park (location of witness signature)

on this day _____ of 2018. (date of signature)

PATENT ASSIGNMENT

Attorney Docket No.: 1003-627 Client Docket No.: 110691.02

<u>ASSIGNMENT</u>

WHEREAS, I, <u>Jibing Dong</u>, 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 DETECTING INCOMPLETE WRITE OF DATA

which is further identified by Attorney Docket Number 1003-627;

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;

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

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

PATENT ASSIGNMENT Attorney Docket No.: 1003-627 Client Docket No.: 110691.02

Date: 2018 / 12 / 17	Inventor's Signature
	Inventør's Signature
Legal name of inventor:	Jibing Dong
Residence:	#5-2-2903, Zhong Jian Guo Ji GanG Xing Hua Road, Daxing District Beijing, 1002600 China (People's Republic)
Mailing Address: Citizenship:	Same as Above CN
was personally present and did see	(name) whose residential address is Schence Paule far Durthot , far)' 'ng Jibing Dong (name of person signing the n to me, execute the above assignment.
	•
Hong Po GAO	(signature of first witness)
Signed at 7/F; Hod2 D,	(signature of first witness)
on this day/ \(\frac{1}{\mu_1}\), \(\begin{align*}/8 \\ \end{align*}	of 20 <u>/\$</u> . (date of signature)
lei Sun	(name) whose residential address is Hen Dian District, Beijig, P.R.C.
71F. Block D. Tinghua Science Park	, Han Drom District, Beijing , P. R.C.
was personally present and did see	<u>Jibing Dong</u> (name of persoň signing the not
Lei Sun	(signature of second witness)
Signed at 7/F. Block D. Try has	Science Pork (location of witness signature)
on this day [2.18	of 20 <u>/</u> 8. (date of signature)

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

<u>ASSIGNMENT</u>

WHEREAS, I, <u>Ruiyong Jia</u>, 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 DETECTING INCOMPLETE WRITE OF DATA

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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;

PATENT ASSIGNMENT Attorney Docket No.: 1003-627

Client Docket No.: 110691.02

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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

(16/33/843), filed 12/18/18)

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

Date: 7018,12, 18	Quiyory Jin Inventor's Signature
Legal name of inventor:	Ruiyong Jia
Residence:	Room 1-403, Building 27, No. 105 XiSanHuanBeiLu Beijing, 100010 China (People's Republic)
Mailing Address: Citizenship:	Same as Above CN
was personally present and did see	(name) whose residential address is Sounce Daw Harpian Distruct Berjing Ruiyong Jia (name of person signing the not one, execute the above assignment.
· •	(signature of first witness)
Signed at Tk, Hate D	(location of witness signature)
on this day/と、/ 8	of 20 <u>/</u> 8. (date of signature)
was personally present and did see assignment) who is personally know	(name) whose residential address is whe Han Dian District being . I. R. C., Ruivong Jia (name of person signing the n to me, execute the above assignment. (signature of second witness)
Signed at 7/F, Block D. Teighna Sc	ience Park (location of witness signature)
on this day 12.18	

Attorney Docket No.: 1003-627 Client Docket No.: 110691.02

ASSIGNMENT

WHEREAS, I, <u>Xinlei Xu</u>, 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 DETECTING INCOMPLETE WRITE OF DATA

which is further identified by Attorney Docket Number 1003-627;

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;

Attorney Docket No.: 1003-627
Client Docket No.: 110691.02

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

$$(16/223,843)$$
, filed $12/18/18$)

Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

Date: 2018. 12.18	XIALL XIA
	Inventor's Signature
Legal name of inventor:	Xinlei Xu
Residence:	6-6-602, Tiantongyuan Zhong Yuan Changping Beijing, 102218 China (People's Republic)
Mailing Address: Citizenship:	Same as Above CN
1_ Hongpo Gao -74, Blook 1). Tough	(name) whose residential address is new Scrence Parks Handlor But Scrence Variot Bert Xinlei Xu (name of person signing the assignment)
who is personally known to me, exe	cute the above assignment.
120MNO Gras	(signature of first witness)
Signed at 7k, Bode 15	(signature of first witness) (location of witness signature) of 20 /8. (date of signature)
on this day ///8	of 20 <u>/&</u> . (date of signature)
1_ <u>Lei Sun</u>	(name) whose residential address is ark, Hai Dian District, Beijny, P.R.C.
7/F, Block D. Tag hua Science P	ark, Hai Dian District, Beijny, P.R.C.
was personally present and did see who is personally known to me, exe	<u>Xiniei Xu</u> (name of person signing the assignment)
Lei Sun	(signature of second witness)
Signed at 71F, Block D. Try hua S	cience Park (location of witness signature)
on this day 12.18	of 20 18 (date of signature)

Attorney Docket No.: 1003-627
Client Docket No.: 110691.02

ASSIGNMENT

WHEREAS, I, <u>Xiongcheng Li</u>, 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 DETECTING INCOMPLETE WRITE OF DATA

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Attorney Docket No.: <u>1003-627</u> Client Docket No.: <u>110691.02</u>

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AND I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses

(16/223,843 , filed \$ 12/18/18)

Attorney	Docket No.	.: <u>100</u>	<u>3-627</u>
Client Do	ocket No.:	1106	91.02

Date: 2018/12/18	N. Sigerley L.
	Inventor's Signature
Legal name of inventor:	Xiongcheng Li
Residence:	Longhuiyuan 1-3-401, Huilongguan Changping District Beijing, 102208 China (People's Republic)
Mailing Address: Citizenship:	Same as Above CN
1_ Hungpo Grao	(name) whose residential address is
7/2: Black D Fran	(name) whose residential address is when Schoole Porte, Barbran District Ben
was personally present and did	see <u>Xiongcheng Li</u> (name of person signing the known to me, execute the above assignment.
Hongpo Gao	(signature of first witness)
	D [≤₽ (location of witness signature) of 20/8. (date of signature)
on this day $12,18$	of 20 <u>/ &</u> . (date of signature)
1 <u>Lei Sun</u>	(name) whose residential address is Le Park. Han Dian District, Beijing, P.R.C.,
7/F. Block D. Ting has Scien	el Park. Han Dian District, Beijing, P.R.C.
was personally present and did	see Xiongcheng Li (name of person signing the known to me, execute the above assignment.
Lei Sus	(signature of second witness)
Signed at 71F, Block D. Ton	Lna Science Park. (location of witness signature)
on this day	of 20 / 8 (date of signature)

-3-