

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5361748

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PAN XIAO	12/14/2018
KIKO WANG	12/14/2018
YANG ZHANG	12/14/2018
ALLEN CHEN	12/14/2018
FANG DU	12/14/2018
ZHENZONG JIANG	12/14/2018
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:	16225483
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	508-616-2900
Email:	Docket@BainwoodHuang.com
Correspondent Name:	BAINWOOD, HUANG & ASSOCIATES, LLC
Address Line 1:	2 CONNECTOR ROAD
Address Line 4:	WESTBOROUGH, MASSACHUSETTS 01581
ATTORNEY DOCKET NUMBER:	1003-628
NAME OF SUBMITTER:	DAVID E. HUANG, ESQ.
SIGNATURE:	/David E. Huang, Reg. No. 39,229/
DATE SIGNED:	02/06/2019
Total Attachments: 18	

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ASSIGNMENT

WHEREAS, I, Pan Xiao, 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, APPARATUS AND COMPUTER STORAGE MEDIUM FOR DATA INPUT AND OUTPUT

which is further identified by Attorney Docket Number 1003-628;

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

(16/225,483 , filed 12/19/18)

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: 12/14/2018

Pan Xiao
Inventor's Signature

Legal name of inventor:

Pan Xiao

Residence:

No. 2 Jianshe Street, Suite 4-2-1202
Chengdu, P.R., 610051
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

I Tony Tan (name) whose residential address is
No. 1138 Zhizi, Jinjiang District, Chengdu, China

was personally present and did see Pan Xiao (name of person signing the assignment)
who is personally known to me, execute the above assignment.

Tony Tan (signature of first witness)

Signed at DELL EMC Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)

I Clyde Chen (name) whose residential address is
Honghe Street, Longquan District, Chengdu, China

was personally present and did see Pan Xiao (name of person signing the assignment)
who is personally known to me, execute the above assignment.

Clyde Chen (signature of second witness)

Signed at Dell EMC, Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)

ASSIGNMENT

WHEREAS, I, Kiko Wang, 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, APPARATUS AND COMPUTER STORAGE MEDIUM FOR DATA INPUT
AND OUTPUT**

which is further identified by Attorney Docket Number 1003-628;

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

(16/225, 483 , filed 12/19/18)

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: 12/14/2018

Kiko Wang
Inventor's Signature

Legal name of inventor:

Kiko Wang

Residence:

45-28-3 Yuanda, Chengren Street
Chengdu, P.R., 610041
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

I Tong Tan (name) whose residential address is
No. 1138 Zhizi, Jinjiang District, Chengdu, China

was personally present and did see Kiko Wang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Tong Tan (signature of first witness)

Signed at DELL EMC Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)

I Clyde Chen (name) whose residential address is
Honghe Street, Longquan District, Chengdu, China

was personally present and did see Kiko Wang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Clyde Chen (signature of second witness)

Signed at Dell EMC Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)

ASSIGNMENT

WHEREAS, I, Yang Zhang, 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, APPARATUS AND COMPUTER STORAGE MEDIUM FOR DATA INPUT AND OUTPUT

which is further identified by Attorney Docket Number 1003-628;

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

(16/225,483 , filed 12/19/18)

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: 12/14/2018

Yang Zhang
Inventor's Signature

Legal name of inventor:

Yang Zhang

Residence:

No. 66 Zhongsheng Road, Suite 6-1-1005
Chengdu, P.R., 610041
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

I Tomy Tan (name) whose residential address is
No. 1138 Zhizi, Jinjiang District, Chengdu, China

was personally present and did see Yang Zhang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Tomy Tan (signature of first witness)

Signed at DELL EMC Chengdu, China (location of witness signature)

on this day 12/14 of 2018 (date of signature)

I Clyde Chen (name) whose residential address is
Honghe Street, Longquan District, Chengdu, China

was personally present and did see Yang Zhang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Clyde Chen (signature of second witness)

Signed at Dell EMC, Chengdu, China (location of witness signature)

on this day 12/14 of 2018 (date of signature)

ASSIGNMENT

WHEREAS, I, Allen Chen, 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, APPARATUS AND COMPUTER STORAGE MEDIUM FOR DATA INPUT
AND OUTPUT**

which is further identified by Attorney Docket Number 1003-628;

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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;

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

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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;

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(16/225,483 , filed 12/19/18)

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: 12/14/2018

Allen Chen

Inventor's Signature

Legal name of inventor:

Allen Chen

Residence:

4-1-704, Cannes Riverside #169
Section II of HuaYang Binhe Road
ShuangLiu
Chengdu, P.R., 610213
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

I Tony Tan (name) whose residential address is
No. 1138 Zhizi, Jinjiang District, Chengdu, China

was personally present and did see Allen Chen (name of person signing the assignment) who is personally known to me, execute the above assignment.

Tony Tan (signature of first witness)

Signed at DELL EMC Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)

I Clyde Chen (name) whose residential address is
Honghe Street, Longquan District, Chengdu, China

was personally present and did see Allen Chen (name of person signing the assignment) who is personally known to me, execute the above assignment.

Clyde Chen (signature of second witness)

Signed at Dell EMC, Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)

ASSIGNMENT

WHEREAS, I, Fang Du, 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, APPARATUS AND COMPUTER STORAGE MEDIUM FOR DATA INPUT AND OUTPUT

which is further identified by Attorney Docket Number 1003-628;

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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;

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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

(16/225,483 , filed 12/19/18)

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: 12/14/2018

Fang Du
Inventor's Signature

Legal name of inventor:

Fang Du

Residence:

Taiping Street No. 12
Guangyuan, P.R., 628309
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

I Tony Tan (name) whose residential address is
No. 1138 Zhizi, Jinjiang District, Chengdu, China

was personally present and did see Fang Du (name of person signing the assignment)
who is personally known to me, execute the above assignment.

Tony Tan (signature of first witness)

Signed at DELL EMC Chengdu, China (location of witness signature)

on this day 12/14 of 20 18. (date of signature)

I Clyde Chen (name) whose residential address is
Honghe Street, Longquan District, Chengdu, China

was personally present and did see Fang Du (name of person signing the assignment)
who is personally known to me, execute the above assignment.

Clyde Chen (signature of second witness)

Signed at Dell EMC Chengdu, China (location of witness signature)

on this day 12/14 of 20 18. (date of signature)

ASSIGNMENT

WHEREAS, I, Zhenzong Jiang, 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, APPARATUS AND COMPUTER STORAGE MEDIUM FOR DATA INPUT AND OUTPUT

which is further identified by Attorney Docket Number 1003-628;

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

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(16/225,483 , filed 12/19/18)

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: 12/14/2018

Zhenzong Jiang

Inventor's Signature

Legal name of inventor:

Zhenzong Jiang

Residence:

6-03, Unit 3, Building 3, Lianhe De
No. 8 Wanxing Street
Chengdu, P.R., 610051
China (People's Republic)

Mailing Address:

Same as Above

Citizenship:

I Tomy Tan (name) whose residential address is
No. 1138 Zhizi, Jinjiang District, Chengdu, China

was personally present and did see Zhenzong Jiang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Tomy Tan (signature of first witness)

Signed at DELL EMC Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)

I Clyde Chen (name) whose residential address is
Honghe Street, Longquan District, Chengdu, China

was personally present and did see Zhenzong Jiang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Clyde Chen (signature of second witness)

Signed at Dell EMC, Chengdu, China (location of witness signature)

on this day 12/14 of 2018. (date of signature)