#### 504393628 06/01/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4440325

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
CHANGYONG YU	05/10/2017
XIANLONG LIU	05/10/2017
YUETAO JIANG	05/10/2017
RUILING DOU	05/10/2017
BANGHUI LUO	05/10/2017
WALTER C. FORRESTER	05/10/2017

### **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:	15498834

### **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

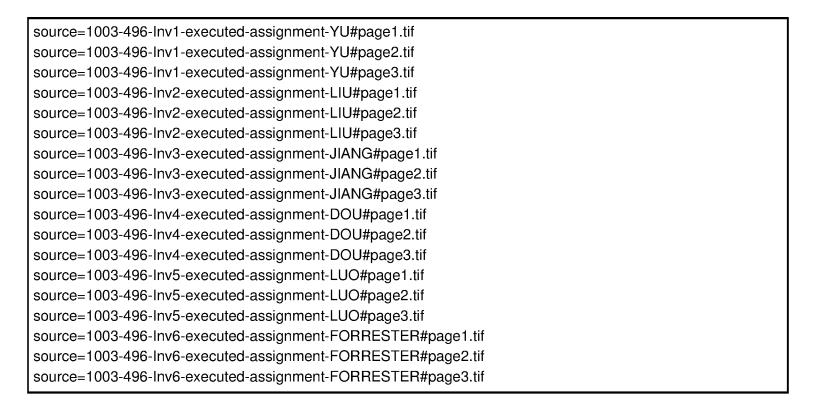
Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	1003-496
NAME OF SUBMITTER:	BRUCE D. RUBENSTEIN, ESQ.
SIGNATURE:	/Bruce D. Rubenstein #39,349/
DATE SIGNED:	06/01/2017

**Total Attachments: 18** 

**PATENT REEL: 042567 FRAME: 0380** 

504393628



Client Docket No.: EMC-16-1065

### **ASSIGNMENT**

WHEREAS, I, Changyong Yu, 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

## ENFORCING MINIMUM SPACE GUARANTEES IN THINLY-PROVISIONED FILE SYSTEMS

which is further identified by Attorney Docket Number 1003-496;

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 ASSIGNMENT

Attorney Docket No.: 1003-496

Client Docket No.: EMC-16-1065

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

(15/498/834

, filed April 27, 2013

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: May 10, 2017	Inventor's Signature
1	Inventor's Signature
Legal name of inventor:	Changyong Yu
	No. 501, Building 36 No. 925, Shangzhong Road West Minhang District Shanghai, 200237 China (People's Republic)
	Same as above <u>CN[BDR1]</u>
1 Yiry Huang	(name) whose residential address is
NO.95, Chifeng Road, Yang P	ly District, shanghai-China
	angyong Yu (name of person signing the
Ying Hang	(signature of first witness)
Signed at KICI, NO.752, Songhu Road	, Yang (Location of witness signature)
on this day <u>loth</u> , May	_ of 20 <u>17</u> . (date of signature)
T 1	
Jun Lu	(name) whose residential address is
was personally present and did see Ch assignment) who is personally known t	(name) whose residential address is earlid. Slagka:  angyong Yu (name of person signing the ome, execute the above assignment.
Jun Liu	(signature of second witness)
Signed at KIC1, NO. 252, Sough RD	, Yang hu District, Shankai, (location of witness signature)
on this day 10 th, May	of 2017. (date of signature)

PATENT

Client Docket No.: EMC-16-1065

### **ASSIGNMENT**

WHEREAS, I, <u>Xianlong Liu</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

## ENFORCING MINIMUM SPACE GUARANTEES IN THINLY-PROVISIONED FILE SYSTEMS

which is further identified by Attorney Docket Number 1003-496;

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

Client Docket No.: EMC-16-1065

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

(15/498, 834, filed April 27, 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.

Date: Maylo, 201/	Xlanlonglin
	X (an long (in
Legal name of inventor:	Xianlong Liu
Residence:	Room 502, No. 16, Lane 777, Linghe Road Pudong District Shanghai, 200129 China (People's Republic)
Mailing Address: Citizenship:	Same as above CN[BDR1]
1Jun Lin	(name) whose residential address is,
NO. 18th, Huglians DD. Tiading	District, Shanghai,
was personally present and did see Xi assignment) who is personally known	anlong Liu (name of person signing the
	(signature of first witness)
Signed at KILI, NO. W. Z., Sougha RD,	Sharylocation of witness signature)
on this day 10th, May	
1 Ying Huang	(name) whose residential address is
NO.95 Chifeng Road, Ylang Pu	District, Shanghai
	anlong Liu (name of person signing the
Ying Huang	(signature of second witness)
-	(location of witness signature)
on this day	of 20 <u>17</u> . (date of signature)

PATENT

### **ASSIGNMENT**

WHEREAS, I, Yuetao 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

### ENFORCING MINIMUM SPACE GUARANTEES IN THINLY-PROVISIONED FILE **SYSTEMS**

which is further identified by Attorney Docket Number 1003-496;

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 ( 15/498834 , filed APril 27, 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.

Date: 2017.5.10	Yuetan Tang Inventor's Signature
	Inventor's Signature
Legal name of inventor:	Yuetao Jiang
Residence:	No. 87 East Minzhu Street, NanXiang Shanghai, 201802 China (People's Republic)
Mailing Address: Citizenship:	Same as above CN[BDR1]
1 Frunkie, Tung	(name) whose residential address is
3-d History Burlday 1. Sonythin Road.	Yung Pu District, Sheng Hu:
was personally present and did see YL assignment) who is personally known	<u>ietao Jiang</u> (name of person signing the
Forlete, Forty	(signature of first witness)
Signed at <u>LIC  .</u>	
on this day	of 20 <u>17</u> . (date of signature)
1_ Parick Lu	(name) whose residential address is
Sed floor Brilding 1 Songhu Ro	ed, Yompu District, Slanghai.
was personally present and did see Yu assignment) who is personally known	uetao Jiang (name of person signing the to me, execute the above assignment.
Patrick Lu	(signature of second witness)
Signed at KIC I	(location of witness signature)
on this day \$. 10	of 20 <u>/7</u> . (date of signature)

Client Docket No.: EMC-16-1065

### **ASSIGNMENT**

WHEREAS, I, Ruiling Dou, 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

## ENFORCING MINIMUM SPACE GUARANTEES IN THINLY-PROVISIONED FILE SYSTEMS

which is further identified by Attorney Docket Number 1003-496;

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

Client Docket No.: EMC-16-1065

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

(15/498,834, filed April 27,2017)

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

Date:	Dou RuiLing
	Inventor's Signature
Legal name of inventor:	Ruiling Dou
Residence:	478 FangHua Road Shanghai, Shanghai China (People's Republic)
Mailing Address: Citizenship:	Same as above <u>CN[BDR1]</u>
1 Jun Liu	(name) whose residential address is <u>District</u> , Shanghai, China
NO. 18, Hualiang RD, Trading	Pistrict, Shanghai China
was personally present and did see Ri assignment) who is personally known	<u>uiling Dou</u> (name of person signing the
Jun Liu	(signature of first witness)
Signed at KILI, Yangfu Parriet, Shan	hai_ (location of witness signature)
on this day	of 20 <u>1 7</u> . (date of signature)
1 Ying Huang	(name) whose residential address is
NO.95, chileng Road, Yang	Pu Distrinut, shanghai, china
was personally present and did see Ruassignment) who is personally known	<u>uiling Dou</u> (name of person signing the
Ying Huang	(signature of second witness)
Signed at KICI, Yang Pu Restrict, She	anghai (location of witness signature)
on this day 10th. May	of 20_17. (date of signature)

PATENT

Client Docket No.: EMC-16-1065

### **ASSIGNMENT**

WHEREAS, I, <u>Banghui Luo</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

# ENFORCING MINIMUM SPACE GUARANTEES IN THINLY-PROVISIONED FILE SYSTEMS

which is further identified by Attorney Docket Number 1003-496;

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

Client Docket No.: EMC-16-1065

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

(15/498/834, filed April 27,2017

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

Date: 05/10/2017	Banghui Luo
	Inventor's Signature
Legal name of inventor:	Banghui Luo
Residence:	2053 Huangxing Road Building 1, Room 502 Yangpu District Shanghai, 200237 China (People's Republic)
Mailing Address: Citizenship:	Same as above CN
1 Ying Huang No.95 Chiffeng Road, Yangf	(name) whose residential address is by bistrut, Shanghaj
• •	anghui Luo (name of person signing the
Xing Hovang	(signature of first witness)
Signed at NJC1. NO. 252, Songhui	Road shanghaj (location of witness signature)
on this day 10th May	of 2017. (date of signature)
was personally present and did see Ba assignment) who is personally known to	
<del>-</del>	(signature of second witness)
Signed at KZC I, NO. W. 2, Yough	水D, Shang 人心 (location of witness signature)
on this day 10 H, May	of 20 <u>17</u> . (date of signature)

Client Docket No.: EMC-16-1065

### **ASSIGNMENT**

WHEREAS, I, <u>Walter C. Forrester</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

## ENFORCING MINIMUM SPACE GUARANTEES IN THINLY-PROVISIONED FILE SYSTEMS

which is further identified by Attorney Docket Number 1003-496;

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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

PATENT ASSIGNMENT

Attorney Docket No.: 1003-496 Client Docket No.: EMC-16-1065

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

(15/498,834, filed April 27, 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.

Date: <u>5/10/17</u> Legal name of inventor: Walter C. Forrester Residence: 21 Magnum Court Berkeley Heights, NJ 07922 United States of America Mailing Address: Same as above Citizenship: US I <u>Dix it</u> Palel (name) whose residential address is Mooning Glory Dr. Monroe, NJ-08831 was personally present and did see Walter C. Forrester (name of person signing the assignment) who is personally known to me, execute the above assignment. \_\_\_\_\_ (signature of first witness) Signed at Warren, NJ (location of witness signature) on this day ion of may of 2017. (date of signature) Christian I Chuka (name) whose residential address is 25 Hamilton Ave, Berkeley itts, WJ 07922 was personally present and did see Walter C. Forrester (name of person signing the assignment) who is personally known to me, execute the above assignment. Westign O Chubu (signature of second witness) 

on this day <u>May (0</u> of 20\_17. (date of signature)

RECORDED: 06/01/2017

PATENT