PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HONGPO GAO	09/21/2017
REE LEI	09/21/2017
HUADONG LI	09/21/2017
WAYNE LI	09/21/2017
JIBING DONG	09/21/2017
SHAOQIN GONG	09/21/2017

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:	16842242

CORRESPONDENCE DATA

Fax Number: (508)366-4688

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Email: Docket@BainwoodHuang.com

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

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Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581

NAME OF SUBMITTER: BRUCE D. RUBENSTEIN, ESQ.	
(D. D.D. L. 11 1100 040 /	
SIGNATURE: /Bruce D. Rubenstein #39,349/	
DATE SIGNED: 02/10/2022	

Total Attachments: 8

PATENT REEL: 058970 FRAME: 0424

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ASSIGNMENT

WHEREAS, we, Hongpo Gao, Ree Sun, Huadong Li, Wayne Li, Jibing Dong and Shaoqin Gong 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 OF MANAGING REDUNDANT ARRAY OF INDEPENDENT DISKS AND ELECTRONIC DEVICE (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 September 20, 2017 as U.S. Application No. 15/710,809;
[]	was patented under U.S. Patent Noon

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, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America. its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution,

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reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

AND, we hereby authorize our attorneys, EMC IP Holding Company LLC, to insert here in parenthesis (15/710,809 filed September 20, 2017) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 2017, 7,2	Hongpo 6100
	Inventor's Signature
Full Name:	Hongpo Gao
Residence:	Tsinghua Science Park
	Beijing, CN 100084
Citizenship:	CN
Mailing Address:	Same as above
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I, Xu lap	(name of first witness), whose residential address is
8/F, Block D Tsinghus S	(name of first witness), whose residential address is right Rand Hallow Pist not
`	ee <u>Hongpo Gao</u> (name of person signing the assignment), who is
personally known to me, execute	e the above assignment.
Xu law	(signature of first witness) (location of witness signature) (date of signature).
Signed at Sugar as ((location of witness signature)
on this day.	20 17 (date of signature).
γ 	2/
1 Broto Thus	(name of second witness) whose residential address is
The Place of Total	(name of second witness), whose residential address is A Science Park, Haidian Diswict, Beijing, P.R.C
was personally present and did s	ee Hongpo Gao (name of person signing the assignment), who is
personally known to me, execute	e the above assignment.
b. to al.	
- Carle Mus	(signature of second witness)
Signed at 7/P, (DWORV)/S	(docation of witness signature)
on this day, $0, 7, 22$	(signature of second witness) (signature of second witness)
ı	

Date: 2017. 9. 2/	Sur Lei
	Inventor's Signature
Full Name:	Ree Lei
Residence:	9-1-301,GuoFengMeiTang
	Beijing, CN
Citizenship:	CN
Mailing Address:	Same as above
was personally present and did see Ree Lei personally known to me, execute the above	name of first witness), whose residential address is wk, No, 1 Zhong gush Chan Zord Rand, Hallan Ditth H i (name of person signing the assignment), who is e assignment. (signature of first witness) (location of witness signature) , 20 1 7 (date of signature).
was personally present and did see Ree Le	name of second witness), whose residential address is Davk, HaiDian District Beijing. P.R.C. i (name of person signing the assignment), who is e assignment. (signature of second witness) Euro park, HaiDian District Beijing. P.R.C. (date of signature).

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Date: 2017 (.2	Huadona Li
, , , , , , , , , , , , , , , , , , , ,	Huading Li Inventor's Signature
Full Name:	Huadong Li
Residence:	No. 26 Shenggubeili, Apt. 2-014
	Beijing, CN 100083
Citizenship:	CN
Mailing Address:	Same as above
v Ta	
1, / (nam	ne of first witness), whose residential address is
3/F. Plack D. Ising how Schoned Pant	he of first witness), whose residential address is K, No. 1 Zhang gunnay, Fast Road, Havidian Pistact.
was personally present and did see Huadong I	<u>Li</u> (name of person signing the assignment), who is
personally known to me, execute the above as	signment.
V T	
Xn lap	(signature of first witness) (location of witness signature) 20 (date of signature).
Signed at Sama as above	(location of witness signature)
on this day, \(\sum_P \tau_P \tau_\),	20 /7 (date of signature).
, ,	1
I harte Thus (nam	ne of second witness), whose residential address is
SIT Bloth D. Touchus Come	ne of second witness), whose residential address is Davk HaiDian District Beijing P.R.C i (name of person signing the assignment), who is
was personally present and did see Hundons	i (nome of parson signing the assignment) who is
personally known to me, execute the above as	signment.
n + -/	
baote Thro	(signature of second witness)
Signed at 7/4 Block V, Ising Muas	Cience Park (location of witness signature)
on this day, 09.22 ,	(signature of second witness) SCIENCE PARK (location of witness signature) P.R.C 20 17 (date of signature).

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Date: 2017/9/21	Inventor's Signature	
Full Name:	Wayne Li	
Residence:	Tsinghua Science Park	
	No.1 Zhongguancun East Road	
	Beijing, CN 100084	
Citizenship:	CN	
Mailing Address:	Same as above	
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I. Xu lao (nar	ne of first witness), whose residential address is	
8/ Black D Tonghing Scale 4 Don't	ne of first witness), whose residential address is No. 1 Thompsie, an Fast Road Hailan District	
was personally present and did see Wayne Li	(name of person signing the assignment), who is	
personally known to me, execute the above a		
Xu lan	(signature of first witness) (location of witness signature) , 20 / / (date of signature).	
Similar Supplier and Charles	(Signature of first witness signature)	
Signed at SAMA SA COSTA	(location of witness signature)	
on this day,	, 20// (date of signature).	
I Bapto Thun (na	me of second witness), whose residential address is	
3/E Block D. Torel un Sargel	and Maining D'ordet Profile D.P.C.	
7/F. Block D. Tsinghua Science Park, HaiDian Dismit Boijing P.R.C		
was personally present and did see Wayne Li (name of person signing the assignment), who is		
personally known to me, execute the above a	issignment.	
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baste mus	(signature of second witness)	
Signed at 7/F, Block D, Ising hua S	cience park, "(location of witness signature)	
on this day, 09.22	(signature of second witness) Cience park, Mai Dian District, Beijing, P.R.C. (location of witness signature).	
l	1	

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Date: 2017/9/2/	Johns Dong Inventor's Signature
Full Name:	Jibing Dong
Residence:	7/F, Block D, Tsinghua Science
	Beijing, CN
Citizenship:	CN
Mailing Address:	Same as above
was personally present and did see <u>Jibing Do</u> personally known to me, execute the above as	me of first witness), whose residential address is k. No. 1. Zhangman (and Fast Poad. Hat, Pian District ng (name of person signing the assignment), who is ssignment. (signature of first witness) e
I, <u>Baote Thuo</u> (nar 7/F, <u>Block D</u> , <u>Tsinghua Science</u> was personally present and did see <u>Jibing Do</u> personally known to me, execute the above a	me of second witness), whose residential address is Plank, Ha Dian District Beiling, P.R. C ng (name of person signing the assignment), who is ssignment. (signature of second witness) Science Park, Hai Dian District Beiling, P.R. C

Date: 2017. 9.21	Shoogin Gong Inventor's Signature
	nventor's Signature
Full Name:	Shaoqin Gong
Residence:	No.29, Chengfu Road, Haidian District
	Beijing, CN
Citizenship:	CN
Mailing Address:	Same as above
\checkmark . \top	
I,(name	ne of first witness), whose residential address is
8/F Black D. Tsunghua Suiger Park	ne of first witness), whose residential address is No. Zhongguan (un Bast Road Ha, P. an District
was personally present and did see Shaoqin G	ong (name of person signing the assignment), who
is personally known to me, execute the above	assignment.
Xu lao	(signature of first witness)
Signed at Same as abave	(location of witness signature)
on this day, Sept, 2/	(signature of first witness) (location of witness signature) 20 / (date of signature).
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I, Barle Thur (nam	park Maidian District. Beijing. P.R.C
7/F Block D. Tsinghua Science	park Maidian District Beiling. P.R.C.
was personally present and did see Shaoqin G	ong (name of person signing the assignment), who
is personally known to me, execute the above	
is personally known to me, encode the doore	uoong.m.e.i.c.
Baste Thus	(signature of second witness).
Signed at 7/E Block D Town Sci	en a namb Mai Pian District Beiling P.R.C
on this day 09 72	(signature of second witness) Mar Pian District Beiling P.R. C Me park Mai Rian District Beiling P.R. C 20 1 (date of signature).
on this day,	20

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RECORDED: 02/10/2022

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