#### 506426748 12/30/2020

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
LEON ZHANG	05/29/2018
HENRY HAO FANG	05/29/2018
CHEN GONG	05/29/2018
LESTER MING ZHANG	05/29/2018
YONGLI WANG	05/29/2018
HUAN CHEN	05/29/2018

# **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:	17096237

## **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

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

Address Line 1: 2 CONNECTOR ROAD

Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	1003-877.001	
NAME OF SUBMITTER:	DAVID E. HUANG, ESQ.	
SIGNATURE:	/David E. Huang, Reg. No. 39,229/	
DATE SIGNED:	12/30/2020	

**Total Attachments: 8** 

**PATENT REEL: 054774 FRAME: 0818** 

506426748

PATENT REEL: 054774 FRAME: 0819

#### **ASSIGNMENT**

WHEREAS, we, Leon Zhang, Henry Hao Fang, Chen Gong, Lester Ming Zhang, Yongli Wang and Huan Chen, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled METHOD AND DEVICE FOR DEDUPLICATION (Application), the specification of which:

[]	is being executed on even date herewith and is about States Patent Office;	t to be filed in the United
[X]	was filed on 11/12/2020 as U.S. Application No.	17/096, 237
[]	was patented under U.S. Patent No.	on

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

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

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

PATENT REEL: 054774 FRAME: 0820 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 (17/04k, 23/Filed 1///2/20) 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: May 24, 2018	Leon 2 hang
	Inventor's Signature
Print full name of inventor	Leon Zhang
	2# 15 G, Jinxi Park, Shijichengiii
Residence	Beijing, China 100097
Citizenship	China (People's Republic)
Mailing Address	Same as above
I, Qiaoshony Zhou (nan	ne of first witness), whose residential address is
77, Block D, Tsinghue Science Park	, Haidian, SeiJing
was personally present and did see Leon Zha	ing (name of person signing the assignment), who is
personally known to me, execute the above as	ssignment.
Azinochonda zland	
	(signature of first witness)
Signed at 1+, black v, (sing how sclone	Paris, 17613/64, 3 (Hocation of witness signature)
on this day, May 29	2018 (date of signature).
I, Wilson HM (nan	ne of second witness), whose residential address is
77, Block D. Tsinghan Science Park	Hailian Bei Jing
was personally present and did see Leon Zha	ing (name of person signing the assignment), who is
personally known to me, execute the above as	ssignment.
Wilsontha	(signature of second witness)  Park (taglian, berfam) (location of witness signature)
Signed at 77, Klock D. Tsingha Silon6	Park, Ita Pian, Ber Jan (location of witness signature)
on this day, May 19 ,	2018 (date of signature).

Date: May 24, 2018	Henry Hao Fang	
	Inventor's Signature	
Print full name of inventor	Henry Hao Fang	
Residence	Room503, Unit 3, Building C16	
	Fulitaoyuan, Jancaichen East Rd	
	Beijing, China 100096	
Citizenship	China (People's Republic)	
Mailing Address	Same as above	
I, Qiao sheny Zhou (nan	ne of first witness), whose residential address is	
IF, Block D, Tsinghua Scionce Park, Ita	: Vian le : Ting	
	o Fang (name of person signing the assignment),	
who is personally known to me, execute the above assignment.		
Otousherry Zhou	(signature of first witness) (location of witness signature)	
Signed at 77. Block D. Tringha Science Park	(location of witness signature)	
on this day, May 29	2018 (date of signature).	
o (		
1111 11.		
I, Wysin Hu (nan	ne of second witness), whose residential address is	
was personally present and did see Henry Ha	to Fang (name of person signing the assignment),	
who is personally known to me, execute the above assignment.		
Wilcon Ha		
	(signature of second witness)	
Signed at 17 Block , Tringlina science Par	vk, Beijing (location of witness signature)	
on this day, May 29	(signature of second witness)    Vk   Re:   Signature     (location of witness signature)     2018 (date of signature).	
J		

Date: May 29 2018	Liong Cherc  Inventor's Signature
0	Inventor's Signature
Print full name of inventor	Chen Gong
Residence	7-2-503 Jin Yu Hua Fu Long Yu Middle Road
	Beijing, China 100083
Citizenship	China (People's Republic)
Mailing Address	Same as above
I, Qjubshamy Zhou (nam 17,13lock), Tsinghua Sience Park, 1	e of first witness), whose residential address is
was personally present and did see Chen Gon	g (name of person signing the assignment), who is
personally known to me, execute the above ass	signment.
Qiarillery Zhou ( Signed at H, Block ), Tring hur Science less on this day, May 29,	signature of first witness)  16 1
1, Wilson Hu (nam 17, block D. 75 myher Scrence for t	e of second witness), whose residential address is
was personally present and did see Chen Gon	g (name of person signing the assignment), who is
personally known to me, execute the above as	signment.
Signed at 17. Noct 17, 75 Try hun Science Po on this day, My 74	signature of second witness)  (***/********************************

Date: May 19 7018	Lester Zham Inventor's Signature
9 //	Inventor's Signature
Print full name of inventor	Lester Ming Zhang
Residence	Wangjingyan, Wangjing Zhong Huan South
	Beijing, China 100084
Citizenship	China (People's Republic)
Mailing Address	Same as above
I, <u>Qiwshony Zhou</u> (nam 17, Black P., Tringhue Science Park	e of first witness), whose residential address is
was personally present and did see Lester Min	ng Zhang (name of person signing the
assignment), who is personally known to me,	execute the above assignment.
Signed at 77 Hoder, Tring has scrence for on this day, May 29	signature of first witness)  1/2 / Jac Via
I, Wilson Un (nam	e of second witness), whose residential address is
was personally present and did see Lester Mi	ng Zhang (name of person signing the
assignment), who is personally known to me,	execute the above assignment.
Signed at 17, Block p. Trypua Scronce	signature of second witness)  [ark, Kailiaa   (location of witness signature) 2018 (date of signature).

Date: 1,2018	Yong l. Wang Inventor's Signature
	Inventor's Signature
Print full name of inventor	Yongli Wang
Residence	Tsinghua Science Park
	Beijing, China 100084
Citizenship	China (People's Republic)
Mailing Address	Same as above
I, <u>Qiousheny Zhou</u> (nam 17, block), Tsinghua Sience Park,	e of first witness), whose residential address is  Hallian, Berjing
was personally present and did see Yongli Wa	ing (name of person signing the assignment), who
is personally known to me, execute the above	assignment.
Signed at 77, Slock V, 75:73 hua Science on this day, May 29	signature of first witness)  Lank, Har Gian (location of witness signature)  2018 (date of signature).
I, William Hu (nam TF, Block b, Tsinyma xience Park	e of second witness), whose residential address is
	ang (name of person signing the assignment), who
is personally known to me, execute the above	assignment.
Signed at 77, Block 7, Tring hua sticke on this day, May 29	signature of second witness)    Yark   Hai Vian   Yes Jing     York   Hai Vian   Hai Vian     Clocation of witness signature     2018 (date of signature).
ζ,	

Date: May 29, 2018	Huan Chen.
	Inventor's Signature
Print full name of inventor	Huan Chen
Residence	Building 5, Room 718,
	4# South Fourth Street, Zhong Guan Cun
	Beijing, China 100084
Citizenship	China (People's Republic)
Mailing Address	Same as above
I, Qiaosheny Zhou (nam 17. No ce P. Tenyhur Science Park	ne of first witness), whose residential address is  Lycan, Vej Jan  To propose of person signing the assignment), who is
was personally present and did see Huan Che	en (name of person signing the assignment), who is
personally known to me, execute the above as	signment.
Signed at 77, Block b, City how Science for on this day, May 29	(signature of first witness)  (signature of first witness)  (signature of first witness)  2018 (date of signature).
I, Wilson Hu (nam 17, Black, Tsinghy scrone Park	ne of second witness), whose residential address is  , hear Jan, Bei Jang  en (name of person signing the assignment), who is
was personally present and did see Huan Chen (name of person signing the assignment), who is	
personally known to me, execute the above as	signment.
	(signature of second witness)  e / (c) ? (an l) (location of witness signature)  2018 (date of signature).

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