### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Lei Chang	06/13/2013
Тао Ма	06/13/2013
Zhanwei Wang	06/13/2013
Luke Lonergan	06/14/2013
Lirong Jian	06/13/2013
Lili Ma	06/13/2013

#### **RECEIVING PARTY DATA**

Name:	EMC Corporation
Street Address:	176 South Street
City:	Hopkinton
State/Country:	MASSACHUSETTS
Postal Code:	01748

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13840948

## **CORRESPONDENCE DATA**

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Email: mgreen@ip-patent.com

VAN PELT, YI & JAMES LLP AND EMC CORPORA Correspondent Name:

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ATTORNEY DOCKET NUMBER:	EMCCP340
	I .

NAME OF SUBMITTER: William J. James	
Signature: /william j. james/	
Date: 07/08/2013	
Total Attachments: 9 source=EMCCP340 Executed Assignment#page1.tif source=EMCCP340 Executed Assignment#page2.tif source=EMCCP340 Executed Assignment#page3.tif source=EMCCP340 Executed Assignment#page4.tif source=EMCCP340 Executed Assignment#page5.tif source=EMCCP340 Executed Assignment#page6.tif source=EMCCP340 Executed Assignment#page7.tif source=EMCCP340 Executed Assignment#page8.tif source=EMCCP340 Executed Assignment#page8.tif source=EMCCP340 Executed Assignment#page9.tif	

#### ASSIGNMENT

WHEREAS, we, Lei Chang, Tao Ma, Zhanwei Wang, Luke Lonergan, Lirong Jian and Lili Ma 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 MXN DISPATCHING IN LARGE SCALE DISTRIBUTED SYSTEM, the specification of which:

Patent Office;	
[X] was filed on March 15, 2013 as U.S. Application No. 13/840,948;	
was patented under U.S. Patent No on	

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts 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

PATENT/Joint Assignment

Attorney Docket No.: EMCCP340 EMC Docket No.: EMC-13-0199(PRO)ORD5

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, 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.

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

-2-

PATENT/Joint Assignment

REEL: 030752 FRAME: 0628

Attorney Docket No.: EMCCP340 EMC Docket No.: EMC-13-0199(PRO)ORD5

Date:June 13, 2013	LBI CHANG Inventor's Signature	
Print full name of first inventor:	Lei Chang	
Residence:	Beijing, CN	
Citizenship:	People's Republic of China	
Mailing Address:	176 South Street, Hopkinton, MA	
I Ping Li (name) whose 7/F BlockD Tsinghua Science Park, NO.1 Z	residential address is Chongguancun East Road, Beijing 100084 P.P.C	
was personally present and did see <u>Lei</u> assignment) who is personally known to me	Chang (name of person signing the	
pring bi	(signature of first witness)	
Signed at 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084  P.P.C (location of witness signature)		
on this day <u>June 13</u> of 20 <u>13</u> . (date of signature)		
I <u>Dayue Gao</u> (name) whose residential address is  7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C  was personally present and did see <u>Lei Chang</u> (name of person signing the assignment) who is personally known to me, execute the above assignment.		
Dayne Gao	(signature of second witness)	
Signed at 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C (location of witness signature)		
on this day June 13 of 2013. (date of signature)		

-3-

PATENT/Joint Assignment

Attorney Docket No.: EMCCP340 EMC Docket No.: EMC-13-0199(PRO)ORD5

Date:	Tao Ma Inventor's Signature
Print full name of second inventor:	Tao Ma
Residence:	Beijing, CN
Citizenship:	People's Republic of China
Mailing Address:	176 South Street, Hopkinton, MA
I <u>Ping Li</u> (name) whose 7/F,BlockD,Tsinghua Science Park, NO.1 ZI was personally present and did see Tao	residential address is hongguancun East Road, Beijing 100084 P.P.C  Ma (name of person signing the assignment)
who is personally known to me, execute the	
pring (s	signature of first witness)
Signed at 7/F,BlockD,Tsinghua Science Parl P.P.C (location of witness signature)	k, NO.1 Zhongguancun East Road, Beijing 100084
on this day <u>June 13</u> of 20 <u>13</u> . (date of signa	ture)
I Dayue Gao (name) who	ose residential address is
	hongguancun East Road, Beijing 100084 P.P.C  Ma (name of person signing the
assignment) who is personally known to me	
Dayne Gao (	signature of second witness)
•	k, NO.1 Zhongguancun East Road, Beijing 100084
on this day June 13 of 2013 (date of signatu	ure)

-4

Date:June 13, 2013	Zhanwei Wang Inventor's Signature	
Print full name of third inventor:	Zhanwei Wang	
Residence:	Beijing, CN	
Citizenship:	People's Republic of China	
Mailing Address:	176 South Street, Hopkinton, MA	
IPing Li		
I <u>Dayue Gao</u> (name) whose residential address is  7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C  was personally present and did see <u>Zhanwei Wang</u> (name of person signing the assignment) who is personally known to me, execute the above assignment.		
Dayne Gao	(signature of second witness)	
Signed at 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084  P.P.C (location of witness signature)		
on this day June 13 of 2013. (date of signature)		

-5-

PATENT/Joint Assignment

Date: Inventor's Signature Luke Lonergan Print full name of fourth inventor: Residence: San Carlos, CA Citizenship: United States of America 176 South Street, Hopkinton, MA Mailing Address. STATE OF **COUNTY OF** subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal.

Notary Public

PLEASE SEE ATTACHED ACKNOWLEDGEMENT/JURAT FROM NOTARY PUBLIC

Print Name: Notfall apparel Riveres tufy
My Commission expires 10/2/2014 Police.

CALIFORNIA ALL-PI	URPOSE ACI	knowledgment ************************************	<del>\$</del>
State of California		l ·	•
County ofSar	n Mateo	}	:
on 6/14/13	pefore me,	Natalia Perez Rivera, Notary Pub.	lic :
personally appeared	Luke Lov	Magan	• • • • • • • • • • • • • • • • • • • •
· · · · · · · · · · · · · · · · · · ·		Name(s) of Signer(s) .	
OFFICIAL NATALIA PERE NOTARY PUBLIC - Commission #1 County of San My Commission expires	Mateo 🖁	who proved to me on the basis of satis be the person(s) whose name(s) is/are within instrument and acknowledge he she/they executed the same in his/recapacity(iss), and that by his/her/their instrument the person(s), or the entity which the person(s) acted, executed the light certify under PENALTY OF PERJUROF the State of California that the forestrue and correct.	e subscribed to the ged to me that ner/their authorized signature of on the ty upon behalf of ne instrument.
		WITNESS my hand and official seal.	
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Place Notary Seal Above		Signature Signature of Wolary P	Public
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and could prevent fra	audulent removal and r	eattachment of this form to another document.	,
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Date: June 13, 2013	2irong Jian Inventor's Signature	
Date	Inventor's Signature	
Print full name of fifth inventor:	Lirong Jian	
Residence:	Beijing, CN	
	People's Republic of China	
Citizenship:	• •	
Mailing Address:	176 South Street, Hopkinton, MA	
I Ping Li (name) whose 7/F, BlockD, Tsinghua Science Park, NO.1 Z	Chongguancun East Road, Beijing 100084 P.P.C	
was personally present and did see Liro assignment) who is personally known to me	ong Jian (name of person signing the	
ping bi	signature of first witness)	
Signed at 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C (location of witness signature)		
on this day June 13 of 2013. (date of signa	ature)	
I Dayue Gao (name) wh	ose residential address is	
7/F,BlockD,Tsinghua Science Park, NO.1 2	Zhongguancun East Road, Beijing 100084 P.P.C	
assignment) who is personally known to me	ong Jian (name of person signing the e, execute the above assignment.	
Dayne Gao	(signature of second witness)	
Signed at <u>7/F,BlockD,Tsinghua Science Pa</u> P.P.C(location of witness signature)	rk, NO.1 Zhongguancun East Road, Beijing 100084	
on this day June 13 of 2013. (date of signat	ure)	

Date: June 13, 2013	lili Ma
	プレス   Inventor's Signature
Print full name of sixth inventor:	Lili Ma
Residence:	Beijing, CN
Citizenship:	People's Republic of China
Mailing Address:	176 South Street, Hopkinton, MA
I <u>Ping Li</u> (name) whose residential address is 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C	
was personally present and did see Lili Ma	_(name of person signing the assignment)
who is personally known to me, execute the above assignment.	
(signatur	e of first witness)
Signed at 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C (location of witness signature)	
on this day <u>June 13 of 2013</u> . (date of signature)	
I <u>Dayue Gao</u> (name) whose residential address is 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C	
was personally present and did see Lili Ma	(name of person signing the
assignment) who is personally known to me, execute the above assignment.	
Dayue Gaz (signatur	re of second witness)
Signed at 7/F,BlockD,Tsinghua Science Park, NO.1 Zhongguancun East Road, Beijing 100084 P.P.C (location of witness signature)	
on this day June 13 of 2013. (date of signature)	

-8