# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Qin Xin	02/17/2012
Feng Zhang	02/17/2012
Qi Bao	02/17/2012

## **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:	13402324

# **CORRESPONDENCE DATA**

Fax Number: (508)366-4688 Phone: 508-616-2900

Email: Docket@BainwoodHuang.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Bainwood, Huang & Associates, LLC

Address Line 1: 2 Connector Road

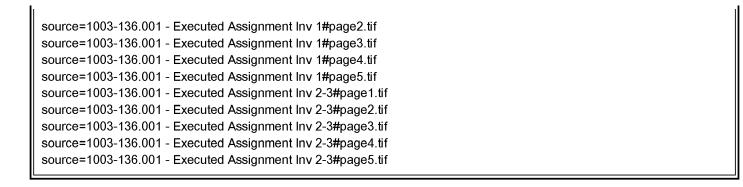
Address Line 4: Westborough, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	1003-136.001
NAME OF SUBMITTER:	Bruce D. Rubenstein, Esq.

Total Attachments: 10

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PATENT REEL: 027871 FRAME: 0397



PATENT REEL: 027871 FRAME: 0398

## ASSIGNMENT

WHEREAS, we, Qin Xin, Feng Zhang and Qi Bao 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 SELECTION OF ERASURE CODE PARAMETERS FOR NO DATA REPAIR the specification of which:

[X]	is being executed on even of United States Patent Office		out to be filed in the
[]	was filed on	as U.S. Application I	No;
[]	was patented under U.S. Pa	atent 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, USA 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

PATENT REEL: 027871 FRAME: 0399

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**, 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 Bainwood Huang & Associates LLC to insert here in parentheses ( 13/402,334 filed 03/2013) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

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

Date: 2/17/2012	0
	Inventor's Signature
Print full name of first inventor: Residence:	Qin Xin 323 N. Butternut Ave. Broken Arrow, OK 74012
	United States of America
Citizenship:	CN
Mailing Address:	Same as above
	card; [v] driver's license; [] (other) be the person whose name is subscribed to liged that he/she executed the same as his/her
	Notary Public
	Print Name:  Whithy GISM  My Commission expires <u>Le / 4 / 13</u>
	Notary Public State of Oklahoma WHITNEY GISH COMMISSION #09004740 Comm. Exp. 06-04-2013

Date: Inventor's Signature Print full name of second inventor: Feng Zhang Residence: 40 Cider Hill Lane Sherborn, MA 01770 United States of America Citizenship: US Mailing Address: Same as above STATE/COMMONWEALTH OF **COUNTY OF** On this \_\_\_\_\_ day of \_\_\_\_\_, 2012, then personally appeared before me the above-named Feng Zhang known to me through satisfactory evidence of identification [\_\_] employee identification card; [\_\_] driver's license; [\_\_] (other) to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained. Notary Public Print Name: My Commission expires \_\_\_ / \_\_\_ / \_\_\_\_

Date:	
	Inventor's Signature
Print full name of third inventor:	Qi Bao
Residence:	228 Liberty Square Road
	Boxborough, MA 01719
	United States of America
Citizenship:	US
Mailing Address:	Same as above
STATE/COMMONWEALTH OF	
me the above-named <b>Qi Bao</b> known identification [] employee identifica	, 2012, then personally appeared before to me through satisfactory evidence of ation card; [] driver's license; [] (other) to be the person whose name is subscribed to
the foregoing Assignment and ackno free act and deed for the purposes th	wledged that he/she executed the same as his/her nerein contained.
	Notary Public
	Print Name:
	My Commission expires / /

# **ASSIGNMENT**

WHEREAS, we, Qin Xin, Feng Zhang and Qi Bao 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 SELECTION OF ERASURE CODE PARAMETERS FOR NO DATA REPAIR the specification of which:

[X]	is being executed on even date herewith and is about to be filed in th United States Patent Office;	
[]	was filed on	as U.S. Application No;
[ ]	was patented under U.S. P	Patent Noon

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, USA 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 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 Bainwood Huang & Associates LLC to insert here in parentheses (13/402, 324 filed 02/22/2012) 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:	
	Inventor's Signature
Print full name of first inventor:	Qin Xin
Residence:	323 N. Butternut Ave.
	Broken Arrow, OK 74012
	United States of America
Citizenship:	CN
Mailing Address:	Same as above
STATE/COMMONWEALTH OF	
COUNTY OF	
COONTY OF _	
On this day of	, 2012, then personally appeared before n to me through satisfactory evidence of
	ation card; [] driver's license; [] (other)
	to be the person whose name is subscribed to
the foregoing Assignment and ackn free act and deed for the purposes t	owledged that he/she executed the same as his/her
nee act and deed for the purposes i	nerem contained.
	Notary Public
	Print Name:
	My Commission expires / /

Date: 2/17/2012	furt
	Inventor's Signature
Print full name of second inventor:	Feng Zhang
Residence:	40 Cider Hill Lane
	Sherborn, MA 01770
	United States of America
Citizenship:	US
Mailing Address:	Same as above
STATE/COMMONWEALTH OF	Massachusetts
COUNTY OF	Middlesex
identification [] employee identific	2012, then personally appeared before known to me through satisfactory evidence of ation card; [] driver's license; [] (other) to be the person whose name is subscribed to owledged that he/she executed the same as his/her herein contained.
	January W. Thomas
	Notary Public
	Print Name:
	Jeannette M. Thomas
	My Commission expires 1 / 31 / 2014
	, commonon on price ,
	Jeannette M. Thomas
	NOTARY PUBLIC COMMONWEALTH OF MASSACHUSETTS
	My Commission Expires Jan. 31, 2014

Date: Feb. 17, 2012	Booger
	Inventor's Signature
Print full name of third inventor:	Qi Bao
Residence:	228 Liberty Square Road
	Boxborough, MA 01719
	United States of America
Citizenship:	US
Mailing Address:	Same as above
STATE/COMMONWEALTH OF MC	ssachusetts
	dalesex
identification [] employee identification  Dirsonally Known to	card; [] driver's license; [] (other) be the person whose name is subscribed to ged that he/she executed the same as his/her
	Canus M. Thomas
	Notary Public
	Print Name:
	Jeannette M. Thamas
	My Commission expires 1 / 31 / 2014
Jeannette M.  NOTARY PUT COMMONWEALTH OF MA My Commission Expires	BLIC SSACHUSETTS

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