# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Siyu Zhou	01/05/2009
Hongliang Tang	01/05/2009
Xiangping Chen	01/05/2009
Sairam Iyer	01/05/2009
Mark Ku	01/05/2009

### **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:	12349182

## **CORRESPONDENCE DATA**

500750536

Fax Number: (617)646-8646

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 6176468299

Email: jdannunzio-ellis@wolfgreenfield.com

Correspondent Name: Daniel T. Wehner Address Line 1: 600 Atlantic Avenue

Address Line 2: Wolf, Greenfield & Sacks, P.C.

Address Line 4: Boston, MASSACHUSETTS 02210-2206

ATTORNEY DOCKET NUMBER: E0295.70359US00

NAME OF SUBMITTER: Daniel T. Wehner

**PATENT** 

**REEL: 022084 FRAME: 0142** 

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PATENT

**REEL: 022084 FRAME: 0143** 

#### **ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, I the undersigned Assignor hereby:

Sell, assign and transfer to EMC Corporation, a Massachusetts having a place of business at 176 South Street; Hopkinton, Massachusetts 01748, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed on January 6, 2009, as Application No. 12/349,182, bearing Attorney Docket No. E0295.70359US00, and entitled METHODS AND APPARATUS FOR MANAGING MULTIPLE POINT IN TIME COPIES IN A FILE SYSTEM, and in and to said application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to Japan and Korea, on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on said inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for Japan and Korea;

- 1. Agree that said Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;
- 2. Request the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said Assignee;
- 3. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 4. Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 5. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

1555821.1

Citizenship: People's Republic of China
STATE/COMMONWEALTH OF Massachusetts COUNTY OF Warrester:
On this 5th day of January, 2009, before me, the undersigned notary public, personally appeared Siyu Zhou, proved to me through satisfactory evidence of identification, which were Messachusetts Drivers License
to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.
SEAL Fuette S. Kelley Notary Public
My commission expires: Way 5, 2011
And Some Method Massachusam  My Commossion Excites  May 5, 2011

Inventor: Siyu Zhou

Address: 42 Cottage Avenue

Millis, MA 54544

STATE/COMMONWEALTH OF Massachusetts COUNTY OF Worcester:
On this
to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.
SEAL Frette S. Kelley Notary Public
My commission expires: May 5, 2011
My Commission Expires May 5, 2011

Inventor: Hongliang Tang Address: 4 Aspen Road

Citizenship: People's Republic of China

Shrewsbury, MA 01545

Citizenship: People's Republic of China
STATE/COMMONWEALTH OF Massachusetts
COUNTY OF Wareester:
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On this 5th day of January, 2009, before me, the undersigned notary public,
personally appeared Xiangping Chen , proved to me through satisfactory evidence of
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to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.
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SEAL Levette S. Keller
Notary Public T
My commission expires: May 5 2011
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Company Public
All Commission Examples
hiay 3, 2011

Address: 6 Chartwell Circle

Shrewsbury, MA 01545

1/5/0 9 Date

0/5/2009.	50.
Date Inventor:	Sairam lyer
Address:	90 Buttercup Lane
	South Grafton, MA 01560
Citizenship:	India
STATE/COMMONWEALTH OF Massachuse COUNTY OF Worker :	atte
COUNTY OF Worcester:	
On this 5th day of January, 20 personally appeared Sairam lyer identification, which were Massachusetts	
to be the person who signed the preceding or attached of to me that the contents of the document are truthful and and belief and acknowledged to me that (he) (she) signed	locument in my presence and swore or affirmed accurate to the best of (his) (her) knowledge
SEAL Notary Public . 7	Kelley
My commission expires: May 5, 20	<i>5.//</i>
Action Public Control Action Visite My October 158	.EY Mussite plies

Citizenship: US	
STATE/COMMONWEALTH OF Mass achies alto	
COUNTY OF Worcester:	
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On this 574 day of January, 2009, before me, the undersigned notary public,	
personally appeared Mark Ku, proved to me through satisfactory evidence of	
identification, which were Massachusetts Drivers License	
to be the person who signed the preceding or attached document in my presence and swore or affirmed	
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge	
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.	
SEAL Levelle S. Belle	
Notary Public	
My commission expires: May 5, 2011	
V	
Sanan Public	
Construct Austral Plansacturesta	
May 5, 2011	

Inventor: Mark Ku

Address: 108 Taylor Street

Wollaston, MA 02170

1/5/09 Date

**RECORDED: 01/09/2009** 

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