503244585 03/31/2015

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3291203

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PHILIPPE ARMANGAU	03/31/2015

### **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:	14674956

#### **CORRESPONDENCE DATA**

**Fax Number:** (508)293-7189

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:** 508-435-1000

Email: Docketing@emc.com

Correspondent Name: EMC CORPORATION OFFICE OF THE GENERAL CO

Address Line 1: 176 SOUTH STREET

Address Line 4: HOPKINTON, MASSACHUSETTS 01748

ATTORNEY DOCKET NUMBER:	EMC-14-0780
NAME OF SUBMITTER:	DEEPIKA BHAYANA
SIGNATURE:	/Deepika Bhayana/
DATE SIGNED:	03/31/2015

#### **Total Attachments: 6**

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PATENT REEL: 035302 FRAME: 0831

PATENT/Joint Assignment Docket No.: EMC-14-0780

#### ASSIGNMENT

WHEREAS, we, Philippe Armangau, Junping Zhao, Fenghao Zhang and Gang Xie, 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 MANAGING DELETION OF REPLICAS OF FILES (Application), the specification of which:

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

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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:

PATENT/Joint Assignment Docket No.: EMC-14-0780

Date:	3/31/15	
		Inventor's Signature
Print fu	Il name of inventor:	Philippe Armangau
Residen	ice:	51 Seminole Road
		Acton, MA 01720
Citizens	ship:	US
Mailing	Address:	Same as above
STATE	/COMMONWEALTH OF	Massachusetts Middlesex
On this		
		Notary Public
		Print Name: Linda M. Velanzola
		My Commission expires 3/4/2022
		LINDA M. VALANZOLA  Notary Public  COMMONWEALTH OF MASSACHUSETTS  My Commission Express

Date:	
	Inventor's Signature
Print full name of inventor	Junping Zhao
Residence	Level 18, Block D
	No. 1, ZhongGuanCun East Road, Haidian
Citizenship	Beijing CN 100084
Mailing Address	Same as above
<u>I</u> ,	(name of first witness), whose residential address is
was personally present and did see	(name of
	s personally known to me, execute the above assignment.
	(signature of first witness)
Signed at	(location of witness signature)
on this day,	, 20 (date of signature).
ī.,	(name of second witness), whose residential address is
was personally present and did see	(name of
person signing the assignment), who is	s personally known to me, execute the above assignment.
	(signature of second witness)
Signed at	(location of witness signature)
on this day,	, 20 (date of signature).

Date:	***************************************
	Inventor's Signature
Print full name of inventor	Fenghao Zhang
Residence	Room 23, 2 Group
	Tanhua Village, W
Citizenship	Chongging CN
Mailing Address	Same as above
	(name of first witness), whose residential address is
·	(name of
	personally known to me, execute the above assignment.
	(signature of first witness)(location of witness signature), 20(date of signature).
I,	(name of second witness), whose residential address is
	(name of
	personally known to me, execute the above assignment.
	(location of witness signature)
on this day,	, 20 (date of signature).
Date:	

# Inventor's Signature

Print full name of inventor	Gang Xie
Residence	Room 402, No. 16 Building
	Zhichunli, Haidian
Citizenship	Beijing CN 100080
Mailing Address	Same as above
I,	(name of first witness), whose residential address is
	(name of
	s personally known to me, execute the above assignment.
	· partition of sitely disserted site above asing mining.
	(signature of first witness)
Signed at	(location of witness signature)
on this day,	, 20 (date of signature).
ş	(name of second witness), whose residential address is
	(name of
	s personally known to me, execute the above assignment.
	(signature of second witness)
	(signature of second witness) (location of witness signature)

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PATENT REEL: 035302 FRAME: 0837