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PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3664147

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SORIN FAIBISH	12/09/2015
UDAY GUPTA	12/09/2015
JOHN M. BENT	12/10/2015
DENNIS TING	12/09/2015

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:	14973245

CORRESPONDENCE DATA

Fax Number: (631)393-6271

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: 631-393-6270

Email: nyoffice@rml-law.com **Correspondent Name:** JOSEPH B. RYAN

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ATTORNEY DOCKET NUMBER:	EMC-15-0967	
NAME OF SUBMITTER:	JOSEPH B. RYAN	
SIGNATURE:	/Joseph B. Ryan/	
DATE SIGNED:	12/17/2015	

Total Attachments: 6

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> **PATENT** REEL: 037321 FRAME: 0232 503617516

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> PATENT REEL: 037321 FRAME: 0233

ASSIGNMENT

WHEREAS, we, Sorin Faibish, Uday Gupta, John M. Bent and Dennis Ting, 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 MULTI-TIER STORAGE SYSTEM HAVING FRONT-END STORAGE TIER IMPLEMENTED UTILIZING SOFTWARE-DEFINED STORAGE FUNCTIONALITY, the specification of which:

[X]	is being executed on even date herewith a States Patent Office;	and is about to be filed in the United	
[]	was filed on as U.	S. Application No;	
[]	was patented under U.S. Patent No.	on	
*******	DEAS ENC Composition (horoingfor "A	SSIGNEE") a corneration organized a	an

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 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:

Date: 12/09/2015	Filip
	Inventor's Signature
Print full name of first inventor:	Sorin Faibish
Residence:	Newton, Massachusetts
Citizenship:	United States of America
Mailing Address:	11 Selwyn Road
	Newton, Massachusetts 02461
STATE/COMMONWEALTH OF COUNTY OF	assachus etts iddlesex
employee identification card; [X] driver's li	foregoing Assignment and acknowledged that he/she
	Notarý Public O
	Print Name: Linette S. Kelley
	My Commission expires <u>07/13/20</u> /8
	LINETTE S. KELLEY Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires July 13, 2018

Date: 12-9/15	
. (Inventor's Signature
Print full name of second inventor:	Uday Gupta
Residence:	Westford, Massachusetts
Citizenship:	United States of America
Mailing Address:	5 Indigo Lane
	Westford, Massachusetts 01886
STATE/COMMONWEALTH OF	assachusetts iddleser
employee identification card; driver's lic	oregoing Assignment and acknowledged that he/she
	Notary Public
	Print Name: Linette S. Kelley
	My Commission expires <u>07</u> / <u>13</u> / <u>20</u> /8
	COMMONWEALTH OF MASSACHUSETTS My Commission Expires July 13, 2018

Date: Dec 10, 2015	Inventor's Signature
Print full name of third inventor:	John M. Bent
Residence:	Los Alamos, New Mexico
Citizenship:	United States of America
Mailing Address:	1902 Camino Durasnilla
	Los Alamos, New Mexico 87544
STATE/COMMONWEALTH OF COUNTY OF	New Mexico Los Alamos
above-named John M. Bent known employee identification card; [X] of the person whose name is subscribe	notary Public Print Name:

Date: 9 Dec. 2015	Danking
	Inventor's Signature
Print full name of fourth inventor:	Dennis Ting
Residence:	Groton, Massachusetts
Citizenship:	United States of America
Mailing Address:	31 Acorn Path
	Groton, Massachusetts 01450
STATE/COMMONWEALTH OF	Massachusetts Middlesex
COUNTY OF	Middlesex
above-named Dennis Ting known to me the employee identification card; [] driver's	ne foregoing Assignment and acknowledged that he/she deed for the purposes therein contained. Notary Public
	Print Name: Line Tte S. Kelley My Commission expires 07/13/07/19
	My Commission expires <u>07/13/20</u> /8

LINETTE S. KELLEY

Notary Public

COMMONWEALTH OF MASSACHUSETTS

My Commission Expires

July 13, 2018