

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	MUZHAR S. KHOKHAR	04/20/2017
	SHYAM REDDY	04/21/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	EMC IP HOLDING COMPANY LLC	
<b>Street Address:</b>	176 SOUTH STREET	
<b>City:</b>	HOPKINTON	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	01748	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15494929
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<b>ATTORNEY DOCKET NUMBER:</b>	EMC-16-0846	
<b>NAME OF SUBMITTER:</b>	JASON A. REYES	
<b>SIGNATURE:</b>	/Jason A. Reyes/	
<b>DATE SIGNED:</b>	04/24/2017	
<b>Total Attachments: 4</b>		
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## ASSIGNMENT

**WHEREAS**, we, Muzhar S. Khokhar and Shyam Reddy, 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 METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR DETERMINING RESPONSE TIMES OF DATA STORAGE SYSTEMS (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 IP Holding Company LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware 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;

AND, we hereby authorize our attorneys, EMC IP Holding Company LLC, to insert here in parenthesis (\_\_\_\_\_) 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: 4/20/2017

Muzhar S. Khokhar  
Inventor's Signature

Print full name of inventor

Muzhar S. Khokhar

Residence

15 Brookdale Circle

Shrewsbury, MA 01545

Citizenship

India

Mailing Address

Same as above

I, Sunil Ajmera (name of first witness), whose residential address is  
1 Parnigan Drive, Shrewsbury, MA  
was personally present and did see Muzhar S. Khokhar (name of person signing the assignment),  
who is personally known to me, execute the above assignment.

Sunil Ajmera (signature of first witness)

Signed at Shrewsbury, MA (location of witness signature)  
on this day, April 20, 2017 (date of signature).

I, Masuma Khokhar (name of second witness), whose residential address is  
15 Brookdale Cir, Shrewsbury, MA-01545  
was personally present and did see Muzhar S. Khokhar (name of person signing the assignment),  
who is personally known to me, execute the above assignment.

Masuma (signature of second witness)

Signed at Shrewsbury, MA (location of witness signature)  
on this day, April 20, 2017 (date of signature).

Date: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature

Date: 21/April/2017

[Signature]  
Inventor's Signature

Print full name of inventor

Shyam Reddy

Residence

293 Turnpike Road, Apt. 019

Westborough, MA 01581

Citizenship

India

Mailing Address

Same as above

I, VAMSHI CHALLA (name of first witness), whose residential address is  
103 WINDSOR RIDGE DR WESTBOROUGH MA 01581  
was personally present and did see Shyam Reddy (name of person signing the assignment), who  
is personally known to me, execute the above assignment.

[Signature] (signature of first witness)  
Signed at 228 SOUTH STREET HOPKINTON MA (location of witness signature)  
on this day, 21 APRIL, 2017 (date of signature).

I, Deema Alswaimi (name of second witness), whose residential address is  
20 Redcliffe Rd APT #104 Allston MA 02134  
was personally present and did see Shyam Reddy (name of person signing the assignment), who  
is personally known to me, execute the above assignment.

[Signature] (signature of second witness)  
Signed at 228 South St. Hopkinton MA (location of witness signature)  
on this day, 21st April, 2017 (date of signature).