

## 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>
KRISHNA CHAITANYA GUDIPATI	07/12/2017
ANIL RAVINDRANATH	07/11/2017
RAHUL UGALE	07/06/2017
<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>
<b>Application Number:</b>	15648971
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)720-8383
<i>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.</i>	
<b>Phone:</b>	408-720-8300
<b>Email:</b>	dianne_neathery@bstz.com
<b>Correspondent Name:</b>	BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP
<b>Address Line 1:</b>	1279 OAKMEAD PARKWAY
<b>Address Line 4:</b>	SUNNYVALE, CALIFORNIA 94085-4040
<b>ATTORNEY DOCKET NUMBER:</b>	10145P091F2
<b>NAME OF SUBMITTER:</b>	ZHAN JOHN CAO
<b>SIGNATURE:</b>	/Zhan John Cao/
<b>DATE SIGNED:</b>	07/13/2017
<b>Total Attachments: 5</b>	
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ASSIGNMENT

WHEREAS, we, Krishna Chaitanya GUDIPATI, Anil RAVINDRANATH, and Rahul UGALE, 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 POLICY DRIVEN IO SCHEDULER TO IMPROVE WRITE IO PERFORMANCE IN HYBRID STORAGE SYSTEMS (Application), the specification of which:

☒ 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 limited liability company 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;

**AND**, we hereby authorize our attorneys, EMC IP Holding Company LLC, to insert here in parentheses (15/648,971, filed 7/13/2017) 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:

PATENT/Joint Assignment  
Attorney Docket No.: 10145P091F2  
EMC Docket No.: EMC-17-0185

Date:

07/12/2017

*G.K. Chaitanya*

Inventor's Signature

Print full name of first inventor:

Krishna Chaitanya GUDIPATI

Residence:

5411 Quebec Common

Fremont, CA 94555

US

Citizenship:

India

Mailing Address:

Same as above

I VIMAL NAKUM (name) whose residential address is 1057 JUNGFRY CT, MILPITAS, CA was personally present and did see KRISHNA G (name of person signing the assignment) who is personally known to me, execute the above assignment.

*V.V. Nakum*

(signature of first witness)

Signed at SANTA CLARA (location of witness signature)

on this day July 12 of 20 17. (date of signature)

I MANIVANMAN C (name) whose residential address is 410 RIVERSIDE CT, APT 211, SANTA CLARA, CA 95058 was personally present and did see KRISHNA (name of person signing the assignment) who is personally known to me, execute the above assignment.

*C. Manivanman*

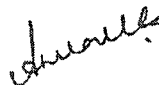
(signature of second witness)

Signed at SANTA CLARA (location of witness signature)

on this day July 12 of 20 17. (date of signature)

Date:

07/11/2017



Inventor's Signature

Print full name of second inventor:

Anil RAVINDRANATH

Residence:

620 Crescent Avenue

Sunnyvale, CA 94087

US

Citizenship:

India

Mailing Address:

Same as above

I, VIMAL ANKUM

(name) whose residential address is


1057 DUNEFRAY CT, MILPITAS, CA

was personally

present and did see ANIL

(name of person signing the assignment) who is personally

known to me, execute the above assignment.



(signature of first witness)

Signed at

SANTA CLARA

(location of witness signature)

on this day

July 12

of 20 17, (date of signature)

I, MANIVANMAN C.

(name) whose residential address is


110 RIVERSIDE CT, APT 211, SANTA CLARA

was personally

present and did see ANIL

(name of person signing the assignment) who is personally

known to me, execute the above assignment.



(signature of second witness)

Signed at

SANTA CLARA

(location of witness signature)

on this day

July 12

of 20 17, (date of signature)

Date:

7/6/2017

  
Inventor's Signature

Print full name of third inventor:

**Rahul UGALE**

Residence:

3901 Lick Mill Blvd.  
Santa Clara, CA 95054  
US

Citizenship:

India

Mailing Address:

Same as above

I SHYAM BURKULE (name) whose residential address is \_\_\_\_\_ was personally present and did see RAHUL UGALE (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at SANTA CLARA (location of witness signature)

on this day 7/6/ of 2017. (date of signature)

I SANTOSH SUGUR (name) whose residential address is \_\_\_\_\_ was personally present and did see RAHUL UGALE (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at SANTA CLARA (location of witness signature)

on this day 7/6/ of 2017. (date of signature)