

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SATISH VISVANATHAN	03/24/2017
RAHUL B. UGALE	03/24/2017
YAMINI ALLU	04/05/2017
VRUSHALI A. KULKARNI	03/26/2017
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City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15488977
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NAME OF SUBMITTER:	ZHAN JOHN CAO
SIGNATURE:	/Zhan John Cao/
DATE SIGNED:	04/17/2017
Total Attachments: 6	
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ASSIGNMENT

WHEREAS, we, Satish VISVANATHAN, Rahul B. UGALE, Yamini ALLU and Vrushali A. KULKARNI 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 to Provide Sustained IOPS with Data Cache on Constrained 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 (Application No. 15/488,977, filed April 17, 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:

Date:

3/24/2017


Inventor's Signature

Print full name of first inventor:

Satish Visvanathan

Residence: 7070 Rainbow Dr
#2, San Jose
CA 95129

7070 Rainbow Drive, #2
San Jose, CA 95129
USA

Citizenship: USA

India

Mailing Address:

Same as above

I KRISHNA CUDIPATI (name) whose residential address is 5111 QUEBEC COMMON, FREMONT, 94555 was personally present and did see Satish Visvanathan (name of person signing the assignment) who is personally known to me, execute the above assignment.

C.K. Chaturvedi (signature of first witness)

Signed at SAN JOSE (location of witness signature)

on this day 3/29/2017 of 20 17. (date of signature)

I Mukesh Sharma (name) whose residential address is 1600 Petussen Ave Apt 11, San Jose, CA 95129 was personally present and did see Satish Visvanathan (name of person signing the assignment) who is personally known to me, execute the above assignment.

Mukesh (signature of second witness)

Signed at Santa Clara (location of witness signature)

on this day 3/24/2017 of 20 _____. (date of signature)

Date: 3/24/2017

R. Ugle
Inventor's Signature

Print full name of first inventor:

Rahul B. Ugale

Residence:

3901 Lick Mill Blvd., Apt. 261
Santa Clara, CA 95054
USA

Citizenship:

India

Mailing Address:

Same as above

I, KRISHNA GUDIPATI (name) whose residential address is
5411 QUEBEC COMMON, FREMONT 94555 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] (signature of first witness)

Signed at SANTA CLARA (location of witness signature)

on this day 3/24 of 2017 (date of signature)

I, MUKESH SHARMA (name) whose residential address is
1600 PETERSEN AVE, APT 21, SAN JOSE 95129 was personally
present and did see RAHUL UGALE (name of person signing the assignment) who is personally
known to me, execute the above assignment.

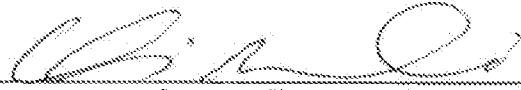
[Signature] (signature of second witness)

Signed at SANTA CLARA (location of witness signature)

on this day 3/24 of 2017 (date of signature)

Date:

04/05/2017



Inventor's Signature

Print full name of first inventor:

Yamini Allu

Residence:

1655 Edmonton Avenue
Sunnyvale, CA 94087
USA

Citizenship:

India

Mailing Address:

Same as above

I DEBASISH GARAI (name) whose residential address is 10200 MILLER AVENUE, APT-303, Cupertino - CA - 95014 was personally present and did see _____ (name of person signing the assignment) who is personally known to me, execute the above assignment.

Wharish Garai (signature of first witness)

Signed at SANTA CLARA CA (location of witness signature)

on this day 5th April of 2017. (date of signature)

I Lana Mack (name) whose residential address is 18791 Peppin Lane, CARATOGA, CA 95070 was personally present and did see YAMINI ALLU (name of person signing the assignment) who is personally known to me, execute the above assignment.

Mah-Tuan Long (signature of second witness)

Signed at Santa Clara, CA (location of witness signature)

on this day 5th April of 2017. (date of signature)

Date: 3/26/2017

Kulkarni
Inventor's Signature

Print full name of first inventor: **Vrushali A. Kulkarni**

Residence: 295 E Evelyn Avenue, Apt 107
Sunnyvale CA 94086
USA

Citizenship: India

Mailing Address: Same as above

I VISHWAS-B-SHARMA (name) whose residential address is 295 E EVELYN AVE, APT 107, SUNNYVALE CA 94086 was personally present and did see VRUSHALI KULKARNI (name of person signing the assignment) who is personally known to me, execute the above assignment.

Vishwas . B. Sharma (signature of first witness)

Signed at SUNNYVALE, CA (location of witness signature)

on this day 3/26 of 2017. (date of signature)

I SMRITI THAKKAR (name) whose residential address is 20 DESCANSO DRIVE, APT 1352, SAN JOSE CA 95134 was personally present and did see VRUSHALI KULKARNI (name of person signing the assignment) who is personally known to me, execute the above assignment.

Smriti Thakkar (signature of second witness)

Signed at SUNNYVALE, CA (location of witness signature)

on this day 3/26 of 2017. (date of signature)