## 503690915 02/12/2016 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PART	Y DATA		
		Name Execution	n Date
MICHAEL R. PALIS		09/25/2013	;
ROBERT P. WIERZBICKI		09/25/2013	;
RECEIVING PARTY	′ DATA		
Name:	EMC C	EMC CORPORATION	
Street Address:	176 SC	176 SOUTH STREET	
City:	НОРКІ	HOPKINTON	
State/Country:	MASS	MASSACHUSETTS	
Postal Code:	01748	01748	
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## ASSIGNMENT

WHEREAS, we, Michael R. Palis and Robert P. Wierzbicki, 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 OPTIMIZED SERVER DESIGN USING DENSE DIMM SPACING, WIDE HEATSINK, IMPROVED ROUTING CHANNELS, AND IMPROVED AIR DELIVERY TO REAR DEVICES (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. \_\_\_\_\_;

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

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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 Corporation, to insert here in parenthesis (US Patent Application Serial No. 14/036.330 filed September 25, 2013) 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 REEL: 037726 FRAME: 0213

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(and

Date: 9-25-13

make

Inventor's Signature

Print full name of first inventor: Residence:

194 South Meadow Road Lancaster, Massachusetts 01523 USA Same as above

Michael R. Palis

Citizenship: Mailing Address:

STATE/COMMONWEALTH OF <u>Massachusetts</u> COUNTY OF <u>Middleses</u>

On this  $25^{4}$  day of  $34^{4}$  day of  $32^{4}$ , then personally appeared before me the above-named Michael R. Palis known to me through satisfactory evidence of identification [ $\leq$ ] employee identification card; [\_\_\_] driver's license; [\_\_] (other)

to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

RHONDA P. ZAFFINO Notary Public MANDAWEALTH OF MASSACHUSETTS My Commission Expires Auroust 29, 2019

<u>Phade P. Zaffer</u> Notary Public

Print Name: Rhonda P. Zathio

My Commission expires 08/29/1 2019

PATENT REEL: 037726 FRAME: 0214

**PATENT/Joint Assignment** EMC Docket No.: EMC-13-0447

Date: 9-25-13

Robert P. Wierzbicki

Inventor's Signature

Print full name of second inventor: Residence:

Citizenship:

Mailing Address:

22 Mohave Road Worcester, Massachusetts 01606 USA Same as above

STATE/COMMONWEALTH OF COUNTY OF

Massachusetts Middlesex

On this  $25^{-th}$  day of  $36\rho + 20/3$ , then personally appeared before me the above-named **Robert P. Wierzbicki** known to me through satisfactory evidence of identification [\_\_] employee identification card; [\_\_] driver's license; [\_\_] (other) to be the person whose name is subscribed to the

foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



And P. Zaffer Notary Public Print Name: <u>Phonda P. Zaffina</u>

My Commission expires  $\underline{O}^{\underline{X}} / \underline{29} / \underline{20} / 9$ 

**RECORDED: 02/12/2016** 

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