

## 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>
WEIDONG ZUO	12/14/2015
DAVID E. BOUDREAU	12/14/2015
JOSEPH P. KING JR.	12/14/2015
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<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10504
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14968251
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<b>ATTORNEY DOCKET NUMBER:</b>	EMC-15-0764
<b>NAME OF SUBMITTER:</b>	JOSEPH B. RYAN
<b>SIGNATURE:</b>	/joseph b. ryan/
<b>DATE SIGNED:</b>	12/14/2015
<b>Total Attachments: 5</b>	
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ASSIGNMENT

WHEREAS, we, Weidong Zuo, David E. Boudreau and Joseph P. King, Jr., 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 **ALTITUDE-BASED ADAPTIVE COOLING OF A COMPUTING DEVICE**, 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 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: 12/14/2015

*Weidong Zuo*  
Inventor's Signature

Print full name of first inventor: Weidong Zuo  
Residence: Westborough, Massachusetts  
Citizenship: China  
Mailing Address: 43 Harvey Lane  
Westborough, Massachusetts 01581

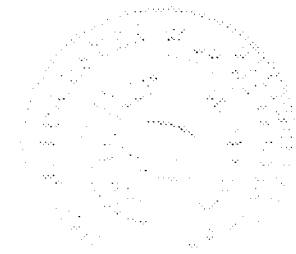
STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 14th day of December, 20 15, then personally appeared before me the above-named Weidong Zuo 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.

*Nancy J. Farnster*  
Notary Public

Print Name: Nancy J. Farnster

My Commission expires 11/24/2015



Date:

12/14/15

David E. Boudreau  
Inventor's Signature

Print full name of second inventor:

David E. Boudreau

Residence:

Littleton, Massachusetts

Citizenship:

United States of America

Mailing Address:

54 Orchid Drive

Littleton, Massachusetts 01460

STATE/Commonwealth of

COUNTY OF

Massachusetts  
Middlesex

On this 14th day of December, 2015, then personally appeared before me the  
above-named David E. Boudreau 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.

Nancy W. Forster  
Notary Public

Print Name: Nancy W. Forster

My Commission expires 11/13/2017



Date: 12/14/2015

[Signature]  
Inventor's Signature

Print full name of third inventor: Joseph P. King, Jr.  
Residence: Sterling, Massachusetts  
Citizenship: United States of America  
Mailing Address: 2 Elliott Road  
Sterling, Massachusetts 01564

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 14th day of December, 2015, then personally appeared before me the  
above-named Joseph P. King, Jr. 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.

[Signature]  
Notary Public

Print Name: Nancy J. Forrester

My Commission expires 11/26/2021

