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Attorney Customer Number: 22,852

6-29-06



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To the Director of the U.S. Patent and
Please record the attached original documents or copy thereof.

Mail Stop Assignment Recordation Services

1. Name of conveying party(ies): (1) Prakash VENKATANARAYANAN, (2) Harold M. SANDSTROM, (3) Cesareo CONTRERAS (4) Cynthia J. BURNS, and (5) Matthew D. WAXMAN		2. Name and address of receiving party(ies): Name: EMC Corporation	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Internal Address:	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:		Street Address: 176 South Street City: Hopkinton State: Massachusetts Zip Code: 01748	
Execution Date: (1) June 26, 2006, (2) June 22, 2006, (3) June 23, 2006, (4) June 26, 2006, and (5) June 27, 2006		Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: (1) June 26, 2006, (2) June 22, 2006, (3) June 23, 2006, (4) June 26, 2006, and (5) June 27, 2006			
A. Patent Application Number(s):		B. Patent Number(s):	
Additional numbers attached?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Anthony J. Lombardi		6. Total number of applications and registrations involved: 1	
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.		7. Total fee (37 CFR 3.41): \$40 <input checked="" type="checkbox"/> Enclosed (Please charge deficiency to deposit account) <input type="checkbox"/> Authorized to be charged to deposit account	
Street Address: 901 New York Avenue, N.W.			
City: Washington, D.C.			
State: Zip: 20001-4413		8. Deposit Account No. 06-0016 07/08/2006 ENRILE 00000078-11476887 04 FC:8021	
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Anthony J. Lombardi Reg No. 53,232 Signature: Date: June 29, 2006 Total number of pages including cover sheet, attachments and documents: 7			

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ASSIGNMENT

WHEREAS, we, Prakash Venkatanarayanan, Harold M. Sandstrom, Cesareo Contreras, Cynthia J. Burns, and Matthew D. Waxman 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 ***SYSTEMS AND METHODS FOR MANAGING VIRTUALIZED LOGICAL UNITS USING VENDOR SPECIFIC STORAGE ARRAY COMMANDS***, 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 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: June 26, 2006

V. Prakash

Inventor's Signature

Print full name of first inventor:

Prakash Venkatanarayanan

Residence:

Milford, MA

Citizenship:

India

Mailing Address:

15 Alfred Road, #H, Milford, MA 01757

STATE/Commonwealth of
COUNTY OF

Massachusetts
Norfolk

On this 26th day of June, 2006, then personally appeared before me the above-named Prakash Venkatanarayanan 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.

Linda M. DeLucca
Notary Public

Print Name: Linda M. DeLucca

My Commission expires 2/18/2011

Date: 06/23/06

Cesareo Contreras
Inventor's Signature

Print full name of third inventor: **Cesareo Contreras**
Residence: **Northbridge, MA**
Citizenship: **United States**
Mailing Address: **24 Brookway Drive, Northbridge, MA 01534**

STATE/Commonwealth of Massachusetts
COUNTY OF Norfolk

On this 23rd day of June, 2006, then personally appeared before me the
above-named _____ 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.

Linda M. DeLuca
Notary Public
Print Name: Linda M. DeLuca
My Commission expires 2 / 18 / 2011

LINDA M. DeLUCA
Notary Public
Commonwealth of Massachusetts
My Commission Expires
FEBRUARY 18, 2011

Date: June 26, 2006

Cynthia J. Burns
Inventor's Signature

Print full name of fourth inventor:

Cynthia J. Burns

Residence:

Franklin, MA

Citizenship:

United States

Mailing Address:

14 Amy's Way, Franklin, MA 02038

STATE/Commonwealth of
COUNTY OF

Massachusetts
Norfolk

On this 26th day of June, 2006, then personally appeared before me the above-named Cynthia J. Burns 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.

Linda M. Deluca
Notary Public

Print Name: Linda M. Deluca

My Commission expires 2 / 18 / 2011

Date:

6/27/06


Inventor's Signature

Print full name of fifth inventor:

Matthew D. Waxman

Residence:

Waltham, MA

Citizenship:

Canada

Mailing Address:

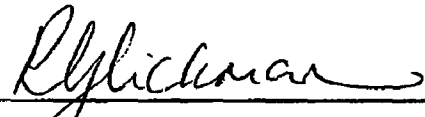
218 South Street, Unit 10, Waltham, MA 02453

STATE/Commonwealth of
COUNTY OF

Massachusetts
Middlesex

On this 27th day of June, 2006, then personally appeared before me the
above-named Matthew D. Waxman 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.


Notary Public

Print Name:

RACHEL H. GLICKMAN

My Commission expires 11/17/2011