OMB No. 0651-0027 (exp. 6/30/2008)	United States Patent and Trademark O
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PATEN	TS ONLY
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1. Name of conveying party(ies)	2. Name and address of receiving party(ies)
Adi Ofer Kiran Madnani	Name: EMC Corporation
Jeffrey A. Brown	internal Address:
Additional name(s) of conveying party(ies) attached? 🗌 Yes 🗹 N	Jo.
3. Nature of conveyance/Execution Date(s):	Street Address: <u>176 South Street</u>
Execution Date(s) 6/29/06	
🖌 Assignment 📃 Merger	
Security Agreement Change of Name	City: HopkInton
Joint Research Agreement	State: MA
Government Interest Assignment	
Executive Order 9424, Confirmatory License	Country: USA Zip:01748
Other	Additional name(s) & address(es) attached?
Additional numbers a 5. Name and address to whom correspondence	ttached?  Yes  No 6. Total number of applications and patents
concerning document should be mailed:	involved: 1
Name: <u>Gue</u> rin & Rod <u>riguez, LLP</u>	
Internal Address:	7 Total foo /27 CED 4 24/h) 8 2 (4) 0
	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00
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Mount Royal Office Park           Dity:         Marlborough           State:         MA           Zip:01752           Phone Number:         508-303-2003           Tax Number:         508-303-0005	<ul> <li>Authorized to be charged by credit card</li> <li>Authorized to be charged to deposit account</li> <li>Enclosed</li> <li>None required (government interest not affecting title</li> <li>8. Payment Information         <ul> <li>a. Credit Card Last 4 Numbers</li></ul></li></ul>
Mount Royal Office Park           Dity:         Marlborough           State:         MA           Zip:01752           Phone Number:         508-303-2003           Fax Number:         508-303-0005           Email Address:	<ul> <li>Authorized to be charged by credit card</li> <li>Authorized to be charged to deposit account</li> <li>Enclosed</li> <li>None required (government interest not affecting title</li> <li>8. Payment Information         <ul> <li>a. Credit Card Last 4 Numbers</li></ul></li></ul>
Dity:         Marlborough           State:         MA         Zip:01752           Phone Number:         508-303-2003	<ul> <li>Authorized to be charged by credit card</li> <li>Authorized to be charged to deposit account</li> <li>Enclosed</li> <li>None required (government interest not affecting title</li> <li>8. Payment Information         <ul> <li>a. Credit Card Last 4 Numbers</li></ul></li></ul>
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Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

# PATENT REEL: 017890 FRAME: 0204

## ASSIGNMENT

WHEREAS, we, <u>Adi Ofer, Kiran Madnani</u>, and <u>Jeffrey A. Brown</u>, 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

# PRESENTATION OF MANAGEMENT FUNCTIONALITY OF VIRTUAL ARRAYS,

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 territorics 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

# PATENT REEL: 017890 FRAME: 0205

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: 6/29/06

Print full name of first inventor:

Inventor's Signature

Adi Ofer

Residence:

10 Merriam Rd, Framingham MA 01701, USA

Citizenship: Mailing Address:

Israel

10 Merriam Rd, Framingham MA 01701, USA

STATE/COMMONWEALTH OF MASSACHUSETTS

COUNTY OF

\_\_\_\_\_Worcester\_\_\_\_

On this <u>29</u> day of <u>func</u>, 2006, then personally appeared before me the above-named, Adi Ofer, known to me through satisfactory evidence of identification [ $\leq$ ]</u> 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: <u>Nancy J. Formstor</u>

My Commission expires 03/07/ or

Date: 06/29/06

ntor's Signature

Print full name of second inventor: Residence;

### Kiran Madnani

46 Cochituate Road, Apt. #601, Framingham, MA 01701

Citizenship: Mailing Address: India

46 Cochituate Road, Apt. #601, Framingham, MA 01701

STATE/COMMONWEALTH OF MASSACHUSETT'S

COUNTY OF

\_\_\_\_\_Worcester\_\_\_\_\_

On this  $29^{44}$  day of  $\sqrt{2006}$ , then personally appeared before me the above-named, Kiran Madnani, known to me through satisfactory evidence of identification [\_\_\_\_\_ employee identification card; Ariver'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.

Y Janey J. Farsulter Notary Public Print Name: <u>Nancy J. Formstor</u>

My Commission expires 13/07/ 200

Date: 6/29/06

Print full name of third inventor: Residence:

Citizenship:

Mailing Address:

Inventor's Signature

Jeffrey A. Brown

3 Birch Brush Road, Shrewsbury MA 01545

USA

3 Birch Brush Road, Shrewsbury MA 01545

## STATE/COMMONWEALTH OF MASSACHUSETTS

COUNTY OF

\_\_\_\_ Worcester\_\_\_\_

On this  $\frac{29^{4}}{29^{4}}$  day of  $\frac{1}{2006}$ , 2006, then personally appeared before me the above-named, Jeffrey A. Brown, 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.

Vanay Ganater\_\_\_\_\_ Notary Public Print Name: <u>Nancy J. Fomstee</u>

My Commission expires 03/07/ 200