

09-01-2006



ET

103300926

Docket No.: EMS-128US

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

8.25.06

1. Name of conveying party(ies)/Execution Date(s):

(a) Patrick Brian Riordan; (b) David Joshua Brown; (c) Kenneth A. Halligan and (d) Arieh Don

Execution Date(s): August 22, 2006

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):

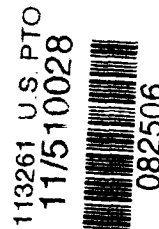
Name: EMC Corporation

Internal Address:

Street Address: 176 South Street  
Hopkinton, Massachusetts 01748

Country: United States of America

Additional name(s) & address(es) attached?  Yes  No



3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other: \_\_\_\_\_

4. Application or patent number(s):

This document is being filed together with a new application

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Muirhead and Saturnelli, LLC

Internal Address:

Street Address: 200 Friberg Parkway  
Suite 1001

City: Westborough

State: Massachusetts Zip: 01581

Fax Number: 508-898-8602

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41).....\$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 050889

Authorized User Name \_\_\_\_\_

9. Signature:

Anne E. Saturnelli, Reg. No. 41,290  
Name of Person Signing

Elis E. Cedar Reg. No. 47,499  
Signature

August 25, 2006  
Date

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services  
Director of the U.S. Patent and Trademark Office  
P.O. Box 1450, Alexandria, VA 22313-1450

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## ASSIGNMENT

**WHEREAS**, we, Patrick Brian Riordan, David Joshua Brown, Kenneth A. Halligan, and Arie Don, 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 **TECHNIQUES FOR RESOURCE ALLOCATION**, 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: 08/22/2006

  
\_\_\_\_\_  
Inventor's Signature

Print full name of first inventor: **Patrick Brian Riordan**  
Residence: 52 Grant Avenue  
Watertown, MA 02472  
Citizenship: Ireland  
Mailing Address: Same

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 22 day of August, 2006, then personally appeared before me the above-named Patrick Brian Riordan, 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: Joseph D. Riordan  
My Commission expires: 7-05-07

Date: 8-22-06

David Joshua Brown  
Inventor's Signature

Print full name of second inventor:

**David Joshua Brown**

Residence:

110 Kristin Drive Extension  
Chelmsford, MA 01824

Citizenship:

U. S. A.

Mailing Address:

Same

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 22 day of August, 2006, then personally appeared before me the above-named David Joshua 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.

Joseph S. D'Angelo  
Notary Public

Print Name: Joseph S. D'Angelo  
My Commission expires: 7.5.13

Date: 8-22-06

Kenneth A. Halligan  
Inventor's Signature

Print full name of third inventor:

**Kenneth A. Halligan**

Residence:

222 Granite Street

Leominster, MA 01453

Citizenship:

U.S.A.

Mailing Address:

Same

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 22 day of August, 2006, then personally appeared before me the above-named Kenneth A. Halligan, 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.

Joseph J. O'Neil  
Notary Public

Print Name: Joseph J. O'Neil

My Commission expires: 7/21/07

Date: 8.22.06

[Signature]  
Inventor's Signature

Print full name of fourth inventor: **Arieh Don**  
Residence: 45 Dexter Road  
Newton, MA 02460  
Citizenship: Israel  
Mailing Address: Same

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 22 day of August, 2006, then personally appeared before me the above-named Arieh Don, 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: Joseph J. D'Arjolo  
My Commission expires: 7.5.13