

05-03-2005

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office



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

**1. Name of conveying party(ies)**

Dr. D. Floriss, Dr. P. Florissi, Udi Kleers, Dr. S. Kliger,  
Dr. E. Yardeni and Dr. Y. Yemini

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 3/31/; 4/21/; 3/31/; 3/31/; 3/31/4/19/05

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: EMC Corporation

Internal Address: \_\_\_\_\_

Street Address: 176 South Street

City: Hopkinton

State: Ma

Country: USA Zip: 01748

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

**4. Application or patent number(s):**

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/077,932

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Carl A. Giordano

Internal Address: EMC Corporation

Street Address: 44 South Broadway, 7th Flr.

City: White Plains

State: NY Zip: 10601

Phone Number: 914 798 8505

Fax Number: 914 948 6270

Email Address: giordano\_carl@emc.com

**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 05-0889

Authorized User Name Carl A. Giordano

**9. Signature:**

Signature

April 27, 2005

Date

Carl A. Giordano

Name of Person Signing

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

17

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5095, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

05/02/2005 GTON11 00000006 050889 11077932

01 FC:8021

40.00 DA

PATENT  
REEL: 016503 FRAME: 0277

## ASSIGNMENT

**WHEREAS**, we, Dr. Danilo Florissi, Dr. Patricia Gomes Soares Florissi, Udi Kleers, Dr. Shmuel Kliger, Dr. Eyal Yardeni and Dr. Yechiam Yemini 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 *Method and Apparatus for Determining Causality Mapping of Distributed Systems*, 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 **March 11, 2005** as U.S. Application No. **11/077,932**;

☐ 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:

3/31/2005

Danilo Florissi

Inventor's Signature

Print full name of first inventor:

Danilo Florissi

Residence:

11 Winterberry Lane, Briarcliff Manor, NY 10510

Citizenship:

Brazil

Mailing Address:

Same as above

STATE/Commonwealth of

New York

COUNTY OF

Westchester

DANILLO FLORISSI

Then personally appeared before me the above-named \_\_\_\_\_ and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31<sup>ST</sup> day of MARCH, 2005.

[Signature]  
Notary Public

Print Name:

THOMAS MERENDINO

My Commission expires 3/17/2007

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date: \_\_\_\_\_

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

Print full name of second inventor:

**Patricia Gomes Soares Florissi**

Residence:

11 Winterberry Lane, Briarcliff Manor, NY 10510

Citizenship:

Brazil

Mailing Address:

Same as above

STATE/Commonwealth of \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Then personally appeared before me the above-named \_\_\_\_\_ and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

\_\_\_\_\_  
Notary Public

Print Name: \_\_\_\_\_

My Commission expires \_\_/\_\_/\_\_

Date:

3/31/2005

Udi Kleers

Inventor's Signature

Print full name of third inventor:

Udi Kleers

Residence:

295 Nob Hill Drive, Elmsford, NY 10523

Citizenship:

Israel

Mailing Address:

Same as above

STATE/Commonwealth of

New York

COUNTY OF

Westchester

Then personally appeared before me the above-named UDI KLEERS and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31ST day of MARCH, 2005.

[Signature]  
Notary Public

Print Name:

THOMAS MERENDINO

My Commission expires

3/17/2007

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date:

3/31/05

Shmuel Kliger  
Inventor's Signature

Print full name of third inventor:

Shmuel Kliger

Residence:

660 Quaker Road

Citizenship:

Chappaqua, NY. 10504

Mailing Address:

Same as above

STATE/Commonwealth of

New York

COUNTY OF

Westchester

Then personally appeared before me the above-named Shmuel Kliger and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31st day of March, 2005.

Thomas Merendino  
Notary Public

Print Name:

Thomas Merendino

My Commission expires 3/17/07

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date: 3/31/05

Eyal Yardeni  
Inventor's Signature

Print full name of third inventor:

Eyal Yardeni

Residence:

38 Eastern Drive, Ardsley, NY 10502

Citizenship:

Israel

Mailing Address:

Same as above

STATE/Commonwealth of New York  
COUNTY OF Westchester

Then personally appeared before me the above-named Eyal Yardeni and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31st day of March, 2005.

[Signature]  
Notary Public

Print Name: THOMAS MERENDINO

My Commission expires 3/17/07

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date: 4/19/2005

  
Inventor's Signature

Print full name of third inventor:

Yechiam Yemini

Residence:

500 River Road, Apt. 2, Cos Cob, Conn. 06807

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of NEW YORK  
COUNTY OF MANHATTAN

Then personally appeared before me the above-named \_\_\_\_\_ and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 19<sup>th</sup> day of APRIL, 2005.

  
Notary Public

Print Name: PATRICIA H. WELCH

My Commission expires 8/31/2006

**PATRICIA H. WELCH**  
Notary Public, State of New York  
No. 01WE4812627  
Qualified in Kings County  
Commission Expires August 31, 2006



## ASSIGNMENT

**WHEREAS**, we, Dr. Danilo Florissi, Dr. Patricia Gomes Soares Florissi, Udi Kleers, Dr. Shmuel Kliger, Dr. Eyal Yardeni and Dr. Yechiam Yemini 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 *Method and Apparatus for Determining Causality Mapping of Distributed Systems*, 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 **March 11, 2005** as U.S. Application No. **11/077,932**;

☐ 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:

3/31/2005

Danilo Florissi

Inventor's Signature

Print full name of first inventor:

**Danilo Florissi**

Residence:

11 Winterberry Lane, Briarcliff Manor, NY 10510

Citizenship:

Brazil

Mailing Address:

Same as above

STATE/Commonwealth of

New York

COUNTY OF

Westchester

DANILLO FLORISSI

Then personally appeared before me the above-named \_\_\_\_\_ and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31st day of March, 2005.

[Signature]  
Notary Public

Print Name:

THOMAS MERENDINO

My Commission expires

3/17/2007

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date:

April 21st, 2005

Patricia Gomes Soares Florissi  
Inventor's Signature

Print full name of second inventor:

Patricia Gomes Soares Florissi

Residence:

11 Winterberry Lane, Briarcliff Manor, NY 10510

Citizenship:

Brazil

Mailing Address:

Same as above

STATE/Commonwealth of

New York

COUNTY OF

Westchester

Then personally appeared before me the above-named Patricia Florissi and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 21st day of April, 2005.

John McKim

Notary Public

Print Name:

Thomas Merendino

My Commission expires 3 / 17 / dec 07

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6189181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date:

3/11/2005

Udik

Inventor's Signature

Print full name of third inventor:

Udi Kleers

Residence:

295 Nob Hill Drive, Elmsford, NY 10523

Citizenship:

Israel

Mailing Address:

Same as above

STATE/Commonwealth of

New York

COUNTY OF

Westchester

Then personally appeared before me the above-named UDI KLEERS and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31st day of MARCH, 2005.

[Signature]  
Notary Public

Print Name:

THOMAS MERENDINO

My Commission expires 3/17/2007

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date:

3/31/05

Shmuel Kliger  
Inventor's Signature

Print full name of third inventor:

Shmuel Kliger

Residence:

660 Quaker Road

Citizenship:

Chappaqua, NY. 10504

Mailing Address:

Same as above

STATE/Commonwealth of

New York

COUNTY OF

Westchester

Then personally appeared before me the above-named Shmuel Kliger and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31st day of March, 2005.

Thomas Merendino  
Notary Public

Print Name:

Thomas Merendino

My Commission expires 3/17/07

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date: 3/31/05

Eyal Yardeni  
Inventor's Signature

Print full name of third inventor:

Eyal Yardeni

Residence:

38 Eastern Drive, Ardsley, NY 10502

Citizenship:

Israel

Mailing Address:

Same as above

STATE/Commonwealth of New York  
COUNTY OF Westchester

Then personally appeared before me the above-named EYAL YARDENI and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 31st day of MARCH, 2005.

[Signature]  
Notary Public

Print Name:

THOMAS MERENDINO

My Commission expires 3/17/07

THOMAS MERENDINO  
Notary Public, State of New York  
No. 01ME6089181  
Qualified in Westchester County  
Commission Expires March 17, 2007

Date: \_\_\_\_\_

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

Print full name of third inventor:

Yechiam Yemini

Residence:

500 River Road, Apt. 2., Cos Cob, Conn. 06807

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Then personally appeared before me the above-named \_\_\_\_\_ and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

\_\_\_\_\_  
Notary Public

Print Name: \_\_\_\_\_

My Commission expires \_\_\_\_ / \_\_\_\_ / \_\_\_\_