

RECC

04-11-2005

SHEET



102977153

To the Honorable Commissioner of

ed original documents or copy thereof.

## 1. Name of conveying party(ies)

Ralph C. Frangioso, Jr. (executed on March 28, 2005)  
 Thomas J. Connor, Jr. (executed on March 29, 2005)  
 Robert p. Wierzbicki (executed on March 29, 2005)  
 Michael L. Schillinger (executed on March 28, 2005)  
 Steven R. Cieluch (executed on March 28, 2005)  
 Keith C. Johnson (executed on March 29, 2005)

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

Name: EMC Corporation

Internal Address:

Street Address: 176 South Street

City: Hopkinton State: MA ZIP: 01748

Additional name(s) & address(es) attached? ☐ Yes ☒ NoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ Other

Execution Date: Please See Box 1

## 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 is: 03-28-05, 03-29-05, 03-29-05,  
 03-28-05, 03-28-05 & 03-29-05

A. Patent Application No.(s)

B. Patent No.(s)

03/31/2005 HLE333 00000037 11092535

05 FC:8021

(40.00 OP)

Additional numbers attached? ☐ Yes ☒ No

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

Name: David E. Huang, Esq.

Internal Address:

CHAPIN &amp; HUANG, L.L.C.

Street Address: Westborough Office Park

1700 West Park Drive

City: Westborough State: MA ZIP: 01581

## 6. Total number of applications and patents involved: [ 1 ]

7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00

☒ Enclosed with application filing fee☒ Authorized to charge any deficiencies or credit any overpayment to deposit account☐ Authorized to be charged to deposit account

## 8. Deposit account number:

50-0901

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 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.

David E. Huang, Esq.

Name of Person Signing

Signature

March 29, 2005

Date

Total number of pages including cover sheet, attachments, and document: [9]

## ASSIGNMENT

**WHEREAS**, we, Ralph C. Frangioso, Jr., Thomas J. Connor, Jr., Robert P. Wierzbicki, Michael L. Schillinger, Steven R. Cieluch, and Keith C. Johnson 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 REDUNDANT COMPUTING FROM WITHIN A 1U FORM FACTOR WITH IMPROVED SERVICEABILITY AND HIGH AVAILABILITY CHARACTERISTICS**, 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: March 28, 2005

Ralph C. Frangioso Jr.  
Inventor's Signature

Print full name of first inventor:

Ralph C. Frangioso, Jr.

Residence:

23 Midland Avenue, Franklin, MA 02038

Citizenship:

United States of America

Mailing Address:

Same as above

STATE/Commonwealth of  
COUNTY OF

Massachusetts  
Sturcester

On this 28<sup>th</sup> day of March, 2005, then personally appeared before me the above-named Ralph C. Frangioso, 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.

Nancy J. Forrester  
Notary Public

Print Name: Nancy J. Forrester

My Commission expires 03/07/2008

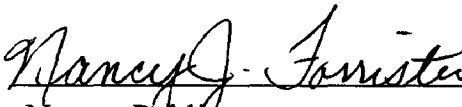
Date: 03/29/05

  
Inventor's Signature

Print full name of second inventor: Thomas J. Connor, Jr.  
Residence: 36 Lakeview Drive, Winchendon, MA 01475  
Citizenship: United States of America  
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts  
COUNTY OF Harcourt

On this 29<sup>th</sup> day of March, 2005, then personally appeared before me the  
above-named Thomas J. Connor, 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.

  
Notary Public

Print Name: Nancy J. Forister  
My Commission expires 03/07/2008

Date: March 29 2005

Robert P. Wierzbicki  
Inventor's Signature

Print full name of third inventor: Robert P. Wierzbicki  
Residence: 22 Mohave Road, Worcester, MA 01606-2660  
Citizenship: United States of America  
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts  
COUNTY OF Worcester

On this 29<sup>th</sup> day of March, 2005, then personally appeared before me the  
above-named Robert P. Wierzbicki 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. Forrester  
Notary Public

Print Name: Nancy J. Forrester  
My Commission expires 03/07/2008

Date: March 28, 2005

Michael L. Schillinger  
Inventor's Signature

Print full name of fourth inventor:

Michael L. Schillinger

Residence:

12 Diane Avenue, Auburn, MA 01501

Citizenship:

United States of America

Mailing Address:

Same as above

STATE/Commonwealth of  
COUNTY OF

Massachusetts  
Worcester

On this 28<sup>th</sup> day of March, 2005, then personally appeared before me the  
above-named Michael L. Schillinger 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. Forrister  
Notary Public

Print Name: Nancy J. Forrister

My Commission expires 03/07/2008

Date: 3/28/05

Steven Cieluch  
Inventor's Signature

Print full name of fifth inventor:

Steven R. Cieluch

Residence:

15 Walbridge Street, Unit #10  
Allston, MA 02134

Citizenship:

United States of America

Mailing Address:

Same as above

STATE/COMMONWEALTH OF  
COUNTY OF

Massachusetts  
Worcester

On this 28<sup>th</sup> day of March, 2005, then personally appeared before me the  
above-named Steven R. Cieluch 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. Forrester  
Notary Public

Print Name: Nancy J. Forrester

My Commission expires 03/07/2008



Date: 3/29/05

Keith C. Johnson  
Inventor's Signature

Print full name of sixth inventor: Keith C. Johnson  
Residence: 1 Colonial Road, Medway, MA 02053  
Citizenship: United States of America  
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts  
COUNTY OF Sturcester

On this 29<sup>th</sup> day of March, 2005, then personally appeared before me the  
above-named Keith C. Johnson 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. Forriste  
Notary Public

Print Name: Nancy J. Forriste  
My Commission expires 03/07/2008