

03-15-2006

ET



EMC Ref.: EMC-05-352/ M&amp;S Ref.: EMS-112US

To the Director of the U.S. Patent and

103197282

ed documents or the new address(es) below.

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

- a) **Andreas L. BAUER**  
 b) **Gregory W. LAZAR**  
 c) **Ram KAILASANATHAN**

Execution Date(s): a) **February 10, 2006**  
 b) **March 1, 2006**  
 c) **February 10, 2006**

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

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ 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: **U.S.A.**Zip: **01748**Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

A. Patent Application No.(s)  
 11/324,740

☐ This document is being filed together with a new application

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 **05-0889**  
 Authorized User Name \_\_\_\_\_

## 9. Signature:

**Anne E. Saturnelli, Reg. No. 41,978**

Name of Person Signing

Signature

**March 8, 2006**

Date

Total number of pages including cover sheet, attachments, and documents: **5**

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

03/14/2006 DBYRNE 00000078 050889 11324740

01 FC:8021

40.00 DA

**PATENT**  
**REEL: 017665 FRAME: 0722**

## ASSIGNMENT

**WHEREAS**, we, Andreas L. Bauer, Gregory W. Lazar and Ram Kailasanathan, 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 **INDICATION FORWARDING IN A DISTRIBUTED ENVIRONMENT**, 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 January 3, 2006 as U.S. Application No. 11/324,740;

☐ 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: 2/10/2006

Andreas L. Bauer  
Inventor's Signature

Print full name of first inventor:

**Andreas L. Bauer**

Residence:

55 Boxmill Road  
Boxborough, MA 01719

Citizenship:

Germany

Mailing Address:

Same

STATE/Commonwealth of  
COUNTY OF

Massachusetts  
Worcester

On this 10 th day of February, 2006, then personally appeared before me the above-named Andreas L. Bauer known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) Andreas L. Bauer 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.

Georgia Grammatikakis  
Notary Public

Print Name: Georgia Grammatikakis

My Commission expires 4/27/12

Date: 3/1/06

Gregory W. Lazar  
Inventor's Signature

Print full name of second inventor:

**Gregory W. Lazar**

Residence:

10 Rockdale Hill Circle

Upton, MA 01568

Citizenship:

USA

Mailing Address:

Same

STATE/Commonwealth of  
COUNTY OF

Massachusetts  
Worcester

On this 1th day of March, 2006, then personally appeared before me the above-named Gregory W. Lazar known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) Gregory W. Lazar 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.

Georgia Grammatikakis  
Notary Public

Print Name: Georgia Grammatikakis

My Commission expires 4/27/12

Date: 10<sup>th</sup> Feb 2006

Ram Kailasanathan

Inventor's Signature

Print full name of second inventor:

**Ram Kailasanathan**

Residence:

6 Village Hill Lane, Apt. #6

Natick, MA 01760

Citizenship:

USA

Mailing Address:

Same

STATE/Commonwealth of  
COUNTY OF

Massachusetts  
Worcester

On this 10 th day of Feb, 2006, then personally appeared before me the above-named Ram Kailasanathan known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☒ (other) Ram Kailasanathan 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.

Georgia Grammatikakis

Notary Public

Print Name: Georgia Grammatikakis

My Commission expires 4/27/12