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OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE  
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**PATENTS ONLY**

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)**ANDREAS L. BAUER  
BRIAN R. GRUTTADAURIA  
GREGORY W. LAZAR  
WALTER T. DOBBERPUHLAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) JUNE 5, 2001

- ☒ 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: MASSACHUSETTS

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)

11/287,106

☐ 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: EMC CORPORATION

Internal Address: R. KEVIN PERKINS, ESQ.;

OFFICE OF GENERAL COUNSEL

Street Address: 176 SOUTH STREET

City: HOPKINTON

State: MASSACHUSETTS Zip: 01748

Phone Number: 1-508-293-6985

Fax Number: 508-293-7189

Email Address: perkins\_rkevin@emc.com

**6. Total number of applications and patents involved: ONE****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

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Authorized User Name JOEL WALL

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**9. Signature:**

Signature

JANUARY 3, 2008

Date

JOEL WALL

Name of Person Signing

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

4

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: 020336 FRAME: 0053**

1.3.07

RECORDS SECTION  
JAN 9 2008

## ASSIGNMENT

WHEREAS, We: **Andreas L. Bauer** of 116 Powder Mill Road, Maynard, MA 01754; **Brian R. Gruttadauria** of 7 Herson Drive, Sutton, MA 01590; **Gregory W. Lazar** of 10 Rockdale Hill Circle, Upton, MA 01568; and, **Walter T. Dobberpuhl** of 33 Tanglewood Drive, Milford, MA 01757 have invented certain new and useful improvements in:

### **SCALABLE COMMUNICATION WITHIN A DISTRIBUTED SYSTEM USING DYNAMIC COMMUNICATION TREES**

which are described and claimed in an Application for United States Letters Patent in respect of which a Declaration and Power of Attorney is executed on even date herewith.

WHEREAS, EMC CORPORATION, a corporation organized and existing under and by virtue of the laws of the Commonwealth of Massachusetts, and having its principal place of business at 171 South Street, Hopkinton, Massachusetts 01748, is desirous of acquiring the entire interest in and to said invention, said Application and the Letters Patent to be obtained therefor.

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, We have sold, assigned, and set over, and by these presents do hereby sell, assign and set over to the said EMC CORPORATION, and said assignee's legal representatives, successors, and assigns, the entire right, title and interest in and to said invention, said Application and the Letters Patent, both foreign and domestic, that may or shall issue thereon including the right to claim in respect of any subsequent corresponding foreign patent applications and patents, the priority date of the said application under any international treaty; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above identified assignee in agreement with the terms of this Agreement.

UPON SAID CONSIDERATION, We do hereby covenant and agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood

that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns, heirs, and legal representatives of all parties hereto.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this  
5<sup>th</sup> day of June 2001

Name: **ANDREAS L. BAUER**

Seal: *Andreas L. Bauer*

United States of America  
 Commonwealth of Massachusetts  
 County of Worcester

On this 5<sup>th</sup> day of June, 2001, before me personally appeared **ANDREAS L. BAUER**, to me proved to be the person described in the foregoing Assignment, who acknowledged that he executed the foregoing Assignment of his own free will for the purposes therein set forth.

*Joel Wall*  
 Notary Public

JOEL WALL

Notary Public

My Commission Expires February 12, 2004

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this  
5<sup>th</sup> day of June 2001

Name: **BRIAN R. GRUTTADAURIA**

Seal: *Brian R. Gruttaduria*

United States of America  
 Commonwealth of Massachusetts  
 County of Worcester

On this 5<sup>th</sup> day of June, 2001, before me personally appeared **BRIAN R. GRUTTADAURIA**, to me proved to be the person described in the foregoing Assignment, who acknowledged that he executed the foregoing Assignment of his own free will for the purposes therein set forth.

*Joel Wall*  
 Notary Public

JOEL WALL

Notary Public

My Commission Expires February 12, 2004

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this  
5<sup>th</sup> day of JUNE 2001

Name: **GREGORY W. LAZAR**

Seal: *Gregory W. Lazar*

United States of America  
 Commonwealth of Massachusetts  
 County of Worcester

On this 5<sup>th</sup> day of JUNE, 2001, before me personally  
 appeared **GREGORY W. LAZAR**, to me proved to be the person described in the  
 foregoing Assignment, who acknowledged that he executed the foregoing Assignment of  
 his own free will for the purposes therein set forth.

*Joel Wall*  
 Notary Public

JOEL WALL

Notary Public

My Commission Expires February 12, 2004

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this  
5<sup>th</sup> day of JUNE 2001

Name **WALTER T. DOBBERPUHL**

Seal: *Walter T. Dobberpuhl*

United States of America  
 Commonwealth of Massachusetts  
 County of Worcester

On this 5<sup>th</sup> day of JUNE, 2001, before me personally  
 appeared **WALTER T. DOBBERPUHL**, to me proved to be the person described in the  
 foregoing Assignment, who acknowledged that he executed the foregoing Assignment of  
 his own free will for the purposes therein set forth.

*Joel Wall*  
 Notary Public

JOEL WALL

Notary Public

My Commission Expires February 12, 2004

PATENT

RECORDED: 01/03/2007

REEL: 020336 FRAME: 0056