

04-11-2007

U.S. PTO
11/729222
03/28/2007



103393436

Docket No.: EMS-155US

9US

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

U.S. 2.3

1. Name of conveying party(ies)/Execution Date(s):
 (a) **Oufei ZHAO;**
 (b) **Galen J. BUNNELL;**
 (c) **Matthew NORGREN; and**
 (d) **Felix RIEPER;**
 Execution Date(s): (a) (b) (c) and (d) **March 27, 2007**
 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):
 A. Patent Application No.(s)
 Additional numbers attached? Yes No

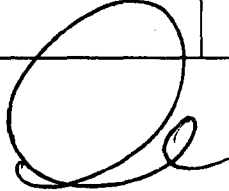
This document is being filed together with a new application
 B. Patent No.(s)

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. 41,290
 Name of Person Signing


 Signature

04/10/2007 LMUELLER 0000066 050889 11729222
01 FC:8021 40.00 DA
March 28, 2007
 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

ASSIGNMENT

WHEREAS, we, Oufei Zhao, Galen J. Bunnell, Mathew Norgren and Felix Rieper, 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 **MASTER-SLAVE PROVIDER ARCHITECTURE AND FAILOVER MECHANISM**, 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: 3/27/07

Oufei Zhao

Inventor's Signature

Print full name of first inventor:

Oufei ZHAO

Residence:

11 Falcon Ridge Drive
Hopkinton, MA 01748

Citizenship:

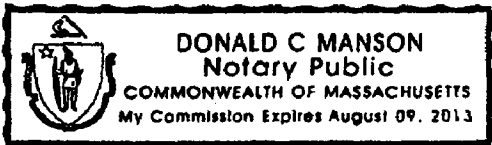
United States

Mailing Address:

Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 27 day of March 2007, then personally appeared before me the above-named Oufei ZHAO 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.



Donald C. Manson

Notary Public

Print Name: Donald C. Manson

My Commission expires: 08/09/2013

Date: 27 MAR 2007

Galen J. Bunnell
Inventor's Signature

Print full name of second inventor:

Galen J. BUNNELL

Residence:

64 Milk Street, Apt. #1
Westborough, MA 01581

Citizenship:

United States

Mailing Address:

Same

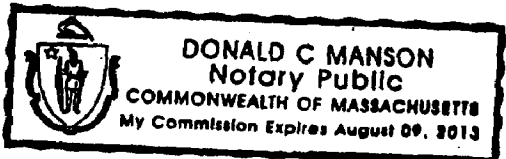
COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 27 day of March, 2007, then personally appeared before me the above-named Galen J. BUNNELL 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.

Donald C. Manson
Notary Public

Print Name: Donald C. Manson

My Commission expires: 08/08/2013



Date: 3/27/2007



Inventor's Signature

Print full name of third inventor:

Matthew NORGREN

Residence:

204B Ridgefield Circle

Clinton, MA 01510

Citizenship:

United States

Mailing Address:

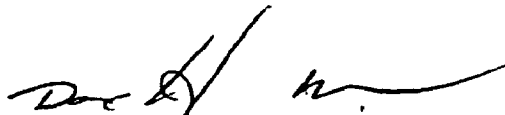
Same

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Middlesex

On this 27 day of March, 2007, then personally appeared before me the above-named Matthew NORGREN known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other)

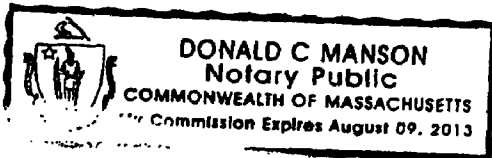
_____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



Notary Public

Print Name: Donald C Manson

My Commission expires: 08/09/2013



Date: 3/27/07

[Signature]
Inventor's Signature

Print full name of fourth inventor: **Felix RIEPER**
Residence: 72 Sixth Street #2
Cambridge, MA 02141
Citizenship: Germany
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 27 day of march, 2007, then personally appeared before me the above-named Felix RIEPER 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: Donald C Manson
My Commission expires: 08/09/2013

