

07-06-2005



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Docket No.: EMS-099US

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

9-27-05

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

(a) Qun Fan
(b) Ofer E. Michael

Execution Date(s): (a) June 20, 2005; (b) June 20, 2005

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

City: Hopkinton

State: MA

Country: USA

Zip: 01748

113256 U.S. PTO
11/167704



062705

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

4. Application or patent number(s):

A. Patent Application No.(s)

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: Patent Group

Internal Address: Choate, Hall & Stewart LLP

Street Address: Exchange Place
53 State Street

City: Boston

State: Massachusetts

Zip: 02109-2804

Fax Number: 617-248-4000

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 _____

Authorized User Name _____

9. Signature:

Anne E. Saturnelli, Reg. No. 41,290

Name of Person Signing

Signature

6/27/05

Date

Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:

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Director of the U.S. Patent and Trademark Office

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07/05/2005 6TOM11 00000166 11167704

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PATENT
REEL: 016739 FRAME: 0439

ASSIGNMENT

WHEREAS, we, **Qun Fan** of Northborough, Massachusetts; and **Ofer E. Michael** of Newton, Massachusetts 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 titled **TECHNIQUES FOR FAULT TOLERANT DATA STORAGE**, 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: 6/20/05

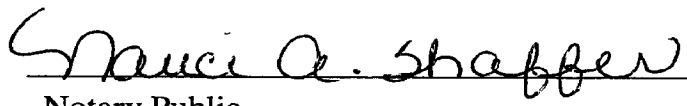


Inventor's Signature

Print full name of first inventor: **Qun Fan**
Residence: 211 Howard Street
Northborough, MA 01532
Citizenship: ~~Israel~~ China
Mailing Address: Same *QF.*

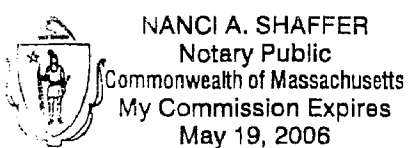
STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 20th day of June, 2005, then personally appeared before me the above-named **Qun Fan** 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: Nanci A. Shaffer
My Commission expires 5/19/06



Date: 6/20/05

[Signature]
Inventor's Signature

Print full name of second inventor: **Ofer E. Michael**
Residence: 37 Salisbury Road
Newton, MA 02458
Citizenship: Israel
Mailing Address: Same

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 20th day of June, 2005, then personally appeared before me the above-named **Ofer E. Michael** 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: Nanci A. Shaffer
My Commission expires 5/19/06

