



103272590

Docket No.: EMS-125US

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

6-30-06

1. Name of conveying party(ies)/Execution Date(s):
Arthur Beaverson; Bin Yang
 Execution Date(s): June 29, 2006
 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

112960 U.S. PTO
11/480346



063006

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

9. Signature:
Anne E. Saturnelli, Reg. No. 41,290
 Name of Person Signing

Signature

June 30, 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
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Attorney Docket No.: EMS-125US
EMC Docket No.: EMC-06-183

ASSIGNMENT

WHEREAS, we, Arthur Beaverson, Bin Yang, and Jamie Pocas, and 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 **DECOUPLED DATA STREAM AND ACCESS STRUCTURES**, 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

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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: 06-29-2006

Arthur Beaverson
Inventor's Signature

Print full name of first inventor:

Arthur Beaverson

Residence:

37 Cobleigh Road
Boxborough, MA 01719-1519

Citizenship:

U.S.A.

Mailing Address:

Same

STATE/Commonwealth of
COUNTY OF

Massachusetts
Worcester

On this 29 day of June, 2006, then personally appeared before me the above-named Arthur Beaverson, known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) Arthur Beaverson 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

Attorney Docket No.: EMS-125US
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Date: 6/29/2006

[Signature]
Inventor's Signature

Print full name of second inventor: **Bin Yang**
Residence: 142 Indian Meadow Drive
Northborough, MA 01532-2446
Citizenship: People's Republic of China
Mailing Address: Same

STATE/Commonwealth OF Massachusetts
COUNTY OF Worcester

On this 29 day of June, 2006, then personally appeared before me the above-named Bin Yang, known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) Bin Yang 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

**Attorney Docket No.: EMS-125US
EMC Docket No.: EMC-06-183**

Date:

Inventor's Signature

Print full name of third inventor:

Jamie Pocas

Residence:

7 Janebar Circle

Framingham, MA 01701-3174

Citizenship:

U.S.A.

Mailing Address:

Same

STATE/Commonwealth of _____

COUNTY OF _____

On this ____ day of June, 2006, then personally appeared before me the above-named Jamie Pocas, 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:

My Commission expires: