

REC



SHEET

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)
 Kendell A. Chilton

10/08/01

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: 35 Parkwood Avenue

City: Hopkinton State: MA ZIP: 01748

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

J1040 U.S. PTO
 09/972314
 10/08/01

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: September 21, 2001

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

If this document is being filed together with a new application, the execution date of the application is: September 21, 2001

A. Patent Application No.(s)
10/11/2001 AAD0FD1 00000041 09972314
04 FC 581 40.00 OP

B. Patent No.(s)

Additional numbers attached? Yes No

09/972314

(10/11/2001 AAD0FD1 00000041 09972314 04 FC 581 40.00 OP)

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David E. Huang, Esq.

Internal Address: _____

CHAPIN & HUANG, L.L.C.

Street Address: Westborough Office Park
1700 West Park Drive

City: Westborough State: MA ZIP: 01581

6. Total number of applications and patents involved: [1]

7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00

Enclosed with application filing fee

Authorized to charge any deficiencies or credit any overpayment to deposit account

Authorized to be charged to deposit account

8. Deposit account number:
50-0901

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David E. Huang *[Signature]* October 5, 2001

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: [3]

ASSIGNMENT

WHEREAS, I, Kendell A. Chilton have invented a certain improvement **METHODS AND APPARATUS FOR ACCESSING DATA ELEMENTS USING IMPROVED HASHING TECHNIQUES** described in an application for Letters Patent of the United States, 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 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 35 Parkwood Drive, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with me;

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, I 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 me had this assignment and sale not been made; I hereby convey 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. I 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, I hereby further agree for myself and my 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, I 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.

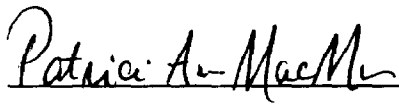
IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor: 
Kendell A. Chilton

~~State~~/Commonwealth
of Massachusetts
County of Middlesex

Then personally appeared before me the above-named Kendell A. Chilton and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 21st day of September, 2001.

(SEAL)

 Notary Public
_____(print name)
My Commission expires ___ / ___ / ___

