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FORM PTO-1595 U.S.  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



102740133

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Commissioner for Patents : Please record the attached original documents or copy thereof.

19270 U.S. PTO  
10/836502

043004

1. Name of conveying party(ies):  
**Stephen J. Todd and Michael Kilian**

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: **4/28/04**

2. Name and address of receiving party(ies)

Name: **EMC Corporation**

Internal Address:

Street Address: **176 South Street  
Hopkinton, MA 01748**

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

4. Application number(s) or patent number(s): **10836502**

If this document is being filed together with a new application, the execution date of the application is 4/28/04

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: **Richard F. Giunta**  
Address: **Wolf, Greenfield & Sacks, P.C.  
Federal Reserve Plaza  
600 Atlantic Avenue  
Boston, MA 02210**

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

7. Total fee (37 CFR 3.41) **\$ 40.00**

Enclosed  
 Authorized to be charged to deposit account

The Commissioner is authorized to charge any deficiencies in the enclosed payment to:

8. Deposit Account No: 23/2825

05/05/2004 SSITHIB1 00000020 10836502  
01 FC:8021 40.00 0P

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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.*

Richard F. Giunta		April 30, 2004
Name of Person Signing	Signature	Date

Total number of pages including cover sheet, attachments, and document: **[ 4 ]**

Mail documents to be recorded with required cover sheet information to (modify as appropriate):

**Mail Stop Patent Application**  
**Commissioner of Patents (when filed with a new application)**  
**PO Box 1450, Alexandria, VA 22313-1450**

**ASSIGNMENT**

**WHEREAS**, we, Stephen J. Todd and Michael Kilian 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 METHODS AND APPARATUS FOR TRANSFERRING DATA IN A CONTENT ADDRESSABLE COMPUTER SYSTEM, the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office;

**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: April 28, 2004

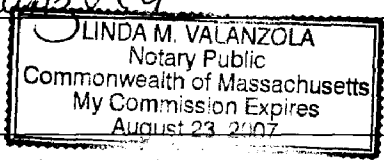
Stephen J. Todd  
Inventor's Signature

Print full name of first inventor: **Stephen J. Todd**  
Residence: Shrewsbury, MA 01545  
Citizenship: United States of America  
Mailing Address: 36 Thomas Farm Circle,  
Shrewsbury, MA 01545

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 28 day of April, 2004, then personally appeared before me the above-named Stephen J. Todd 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.

Linda M. Valanzola  
Notary Public  
Print Name: \_\_\_\_\_  
My Commission expires \_\_\_ / \_\_\_ / \_\_\_



Date: April 28, 2004

Michael Kilian  
Inventor's Signature

Print full name of second inventor: **Michael Kilian**  
Residence: Harvard, MA 01451  
Citizenship: United States of America  
Mailing Address: 25 Candleberry Lane, Harvard, MA 01451

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 28 day of April, 2004, then personally appeared before me the above-named Michael Kilian 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.

Linda M. Valanzola

Notary Public

Print Name: \_\_\_\_\_

My Commission expires \_\_\_ / \_\_\_ / \_\_\_

