

02-09-1999



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Patent and Trademark Office

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RECORDATION FORM COVER PATENTS ONLY

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

2.5.99

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COPIED

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

1. Name of conveying party(ies): Philip E. Tamer and Terry Seto Lee
Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party(ies)
Name: EMC Corporation
Internal Address:
Street Address: 171 South Street Hopkinton, MA 01748-9103
Additional name(s) & addresses(es) attached? [] Yes [X] No

3. Nature of conveyance:
[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other
Execution Date: January 29, 1998

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
A. Patent Application No.(s) 09/196,384
B. Patent No.(s)
Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence Concerning document should be mailed:
Name: Robert A. Skrivanek, Jr.
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
[X] Enclosed
[] Authorized to be charged to deposit account
The Commissioner is authorized to charge:
8. Deposit Account No: 23/2825

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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.
Robert A. Skrivanek, Jr. [Signature] February 2, 1999 [Date]

Total number of pages including cover sheet, attachments, and document: [5]

Mail documents to be recorded with required cover sheet information to:
Box Assignment, Commissioner of Patents and Trademarks,
Washington, D.C. 20231

02/08/1999 JMWIKINS 0000056 09196304 40.00 OP

01 FC:501

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Terry Seto Lee, 1518 South Fourth Avenue, Arcadia, CA 91006, hereby

Sell, assign and transfer to EMC Corporation, a Massachusetts corporation having a place of business at 171 South Street, Hopkinton, MA 01748-9103, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on November 19, 1998 under Serial No. 09/196,384 and entitled **METHOD AND APPARATUS FOR OBTAINING AN IDENTIFIER FOR A LOGICAL UNIT OF DATA IN A DATABASE**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to

others by me, and that full right to convey the same as herein expressed is possessed by me.

Dated: 1/29/1999

Terry Seto Lee
TERRY SETO LEE

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 29th day of January.

SEAL

John G. Durmei
Notary Public

My Commission Expires: 9-2-2005

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Philip E. Tamer, 1500 Worcester Road #305, Framingham, MA 01702, hereby

Sell, assign and transfer to EMC Corporation, a Massachusetts corporation having a place of business at 171 South Street, Hopkinton, MA 01748-9103, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on November 19, 1998 under Serial No. 09/196,384 and entitled **METHOD AND APPARATUS FOR OBTAINING AN IDENTIFIER FOR A LOGICAL UNIT OF DATA IN A DATABASE**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

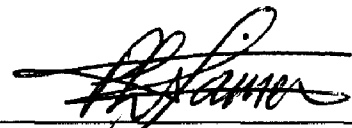
Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to

others by me, and that full right to convey the same as herein expressed is possessed by me.

Dated: 1/29/99



PHILIP E. FAMER

STATE OF Massachusetts :
COUNTY OF Middlesex :

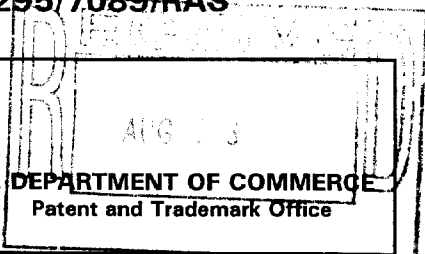
Subscribed and sworn to before me this 29th day of January.

SEAL



Notary Public

My Commission Expires: 9-2-2005



RECORDATION FORM COVER SHEET PATENTS ONLY

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

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):
Philip E. Tamer & Terry Seto Lee

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: 171 South Street
Hopkinton, MA 01748-9103

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

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other: **Corrected Assignment Recordation Form Cover Sheet** to correct the Execution Date from January 29, 1998 to January 29, 1999. Incorrect Recordation Form Cover Sheet and Assignments recorded on February 5, 1999 at Reel 9742, Frame 0297.

Execution Date: January 29, 1999

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

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

09/196,384

Additional numbers attached? Yes No

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

Name: Robert A. Skrivanek, Jr.

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

The Commissioner is authorized to charge any deficiency or credit any overpayment to Deposit Account No: 23/2825.

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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.

Robert A. Skrivanek, Jr.  August 20, 1999

Name Signature Date

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

Mail documents to be recorded with required cover sheet information to:
Box Assignment, Commissioner of Patents and Trademarks,
Washington, D.C. 20231

RAS



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 05, 1999

WOLF, GREENFIELD & SACKS, P.C.
ROBERT A. SKRIVANEK, JR.
FEDERAL RESERVE PLAZA
600 ATLANTIC AVENUE
BOSTON, MA 02210

PTAS

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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/05/1999

REEL/FRAME: 9742/0297
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
TAMER, PHILIP E.

DOC DATE: 01/29/1998

ASSIGNOR:
LEE, TERRY SETO

DOC DATE: 01/29/1998

ASSIGNEE:
EMC CORPORATION
171 SOUTH STREET
HOPKINTON, MASSACHUSETTS 01748-9103

SERIAL NUMBER: 09196384
PATENT NUMBER:

FILING DATE: 11/19/1998
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

REC'D - 05/19/99
MAY 19 1999
U.S. PATENT AND TRADEMARK OFFICE