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Form PTO-1595 (Rev. 09/04)

06-22-2005

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i.Pa	tent and T	radema	rk Office

OMB No. 0651-0027 (exp. 6/30/2005)	S Patent and Trademark Office
RECORDATION	
PA'	103025491 ————
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Phillip Fultz, Ashok Tamilarasan, Michael Manning, Thomas Dibb	Name: EMC Corporation
	Internal Address:
	ග්ර
Execution Date(s) June 15, 2005	20 Saint Street
Additional name(s) of conveying party(ies) attached? Yes No	Street Address: 176 South Street
3. Nature of conveyance:	
Assignment Merger	City: Hopkinton
Security Agreement Change of Name	State: MA 01748
Government Interest Assignment	
Executive Order 9424, Confirmatory License	Country: USA Zip: 01748
Other	Additional name(s) & address(es) attached? Yes V
4. Application or patent number(s):	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers att	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name:Richard M. Sharkansky	
	7. Total fee (37 CFR 1.21(h) & 3.41) \$
Internal Address:	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: P. O. Box 557	Enclosed
	None required (government interest not affecting title)
City: Mashpee	8. Payment Information
State: MA Zip: 02649	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 508 477 4311	b. Deposit Account Number 05-0889
Fax Number: <u>508 477 7234</u>	,
Email Address: sharkansky@comcast.net/	Authorized User Name Richard M. Sharkansky
9. Signature:	6-16-2001
Signature	Date

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

Mail Stop Assignment Regardation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450
05/21/2005 LMUELLER 00000085 050807 111153932 data of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Name of Person Signing

40.00 DA 01 FC:8021

> **PATENT REEL: 016696 FRAME: 0067**

sheet, attachments, and documents:

ASSIGNMENT

WHEREAS, we, Phillip Fultz, Ashok Tamilarasan, Michael Manning and Thomas Dibb 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 METHOD FOR OPERATING DISK DRIVES IN A DATA STORAGE SYSTEM, the specification of which:

[X]	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. Pat	ent Noon

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

PATENT REEL: 016696 FRAME: 0068

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: 6/15/03	Phio of
	Inventor's Signature
Print full name of first inventor:	Phillip Fultz
Residence:	Clinton, MA 01510
Citizenship:	United States of America
Mailing Address:	613 Devenwood Way
•	Clinton, MA 01510
STATE/COMMONWEALTH OF COUNTY OF	Massachusetts Norcestu
On this 15 th day of June above-named Philip Fultz known to employee identification card; [1] dr	, 2005, then personally appeared before me the me through satisfactory evidence of identification [] iver's license; [] (other) to be the person whose name is subscribed to the
foregoing Assignment and acknowle deed for the purposes therein contain	dged that he/she executed the same as his/her free act and
	Notary Public Print Name: Nancy J. Forrister My Commission expires 03 1 071 2008

Date: 6/15/05	T. Axhos
	Inventor's Signature
Print full name of second inventor:	Ashok Tamilarasan
Residence:	Framingham, MA 01702
Citizenship:	India
Mailing Address:	87 Georgetown Drive, Apt #11
	Framingham, MA 01702
On this 15 day of, 2005, then personally appeared before me the above-named shek 7 sm/kr ss-known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other)	
	that he/she executed the same as his/her free act and
	Notary Public Print Name: Nancy J. Forrister
	Print Name: Nancy J. Forrister
	My Commission expires 03/07/ 2008

Date: 6/15/05	202
	Inventor's Signature
Print full name of third inventor:	Michael Manning
Residence:	Hopkinton, MA 01748
Citizenship:	United States of America
Mailing Address:	32 Briarcliff Drive
	Hopkinton, MA 01748
STATE/COMMONWEALTH OF State of use the STATE/COMMONWEALTH OF State of use the State of the State	
foregoing Assignment and acknowled deed for the purposes therein contained	ged that he/she executed the same as his/her free act and d.
	Janey J. Farrister
	Notary Public
	Print Name: Nancy J. Forrister
	My Commission expires <u>03</u> / <u>07</u> / <u>20</u> 08

Date: 6/15/2005	Thurs Maill
	Inventor's Signature
Print full name of fourth inventor:	Thomas Dibb
Residence:	Rutland, MA 01543
Citizenship:	United States of America
Mailing Address:	209 Pommogussett Road
	Rutland, MA 01543
STATE/COMMONWEALTH OF Ma	usich as etts
COUNTY OF <u>IYM</u>	Ces Tex
On this 15 day of, 2005, then personally appeared before me the above-named homes him known to me through satisfactory evidence of identification [to be the person whose name is subscribed to the	
foregoing Assignment and acknowledged that deed for the purposes therein contained.	at he/she executed the same as his/her free act and
	Dancy Farrister
	Notary Public Print Name: Nancy J. Forristor
	Print Name: Nancy J. Forristor
	My Commission expires 13/07 / 2008

RECORDED: 06/16/2005