	Ally DKI No EMICZ-140PUS		
(Rev. 03/01)	09 - 2003 U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office		
OMB No. 0651-0027 (exp. 5/31/2002)			
Tab settings ⇔⇔ ▼ To the Honorable Commissioner of Pate. 102	412879 , nal documents or copy thereof.		
Name of conveying party(ies):	Name and address of receiving party(ies)		
Ofer Porat	Name: EMC Corporation		
Brian K. Campbell Yujie Xu			
Eric J. Bruno	Internal Address:		
Additional name(s) of conveying party(les) attached? Yes No	D 12		
3. Nature of conveyance:			
🛣 Assignment 🗆 Merger	25 Deduced Drive		
☐ Security Agreement ☐ Change of Name	Street Address: 35 Parkwood Drive		
☐ Other			
	City: Hopkinton State: MA Zip: 01748		
Execution Date: 3/28/03	Additional name(s) & address(es) attached?		
4. Application number(s) or patent number(s):	3/28/03,		
If this document is being filed together with a new appli	3/22/03, ication, the execution date of the application is: <u>3/28/03</u>		
A. Patent Application No.(s)	B. Patent No.(s) 3/28/03		
10403263 Additional numbers at	tached? ☐ Yes 🖫 No		
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1		
Name: Richard M. Sharkansky	7. Total fee (37 CFR 3.41)\$_\$40.00		
Daly, Crowley & Mofford, LLP	IX Enclosed		
Internal Address:			
	☐ Authorized to be charged to deposit account		
	Deposit account number:		
Street Address: 275 Turnpike Street, Suite 101	o. Deposit account number.		
0.1001.7.101.000	50-0845		
City: Canton State: MA Zip: 02021-2354	(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.			
Richard M. Sharkansky Reg. No. 25,800	3-3/03		
Name of Person Signing Signature Date			
Total number of pages including cove	r sheet, attachments, and documents: 6		

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Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT

REEL: 013918 FRAME: 0454

ASSIGNMENT

Whereas we, the undersigned,	Ofer Porat, Brian K. Campbell, Jane Xu, and	d Eric J. Bruno, hereby
have made certain inventions or	r discoveries (or both) set forth in an applicati	on for Letters Patent of
the United States of America of	entitled DATA STORAGE SYSTEM, identified as	s Attorney Docket No.
EMC2-140PUS and Client Cas	se No. EMC-02-186, which application was	executed on
and filed on	and Assigned Application No	In the event that
the execution date, filing date a	nd/or Application No. are not entered above a	at the time we executed
this document, and if such info	ormation is deemed necessary, we hereby aut	thorize and request our
attorneys at Daly, Crowley & N	Mofford, LLP, 275 Turnpike Street, Suite 101	l, Canton, MA 02021-
2354, to insert above the execu	tion date, filing date and/or Application No.	of said application.

Whereas, EMC Corporation, a Massachusetts Corporation having a place of business at 176 South Street, Hopkinton, MA 01748-9103, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited:

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

- 1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, re-examination and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

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Attorney Docket No.: EMC2-140PUS

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment as an instrument under seal on the dates indicated next to our names.

37		
State or Commonwealth of MASSACKUSE9	175	
	igwedge	
County <u>////////////////////////////////////</u>	n '	
Dated <u>MRCN 45, 200</u> 3		
	Ofer Porat	
On this \(\frac{17}{2}\) day of \(\frac{17}{2}\) me known and known to me as the person described	, 2003, before me appeared Ofer Porat, to	
the known and known to the as the person described in and who executed the foregoing		

instrument, and he/she acknowledged the same to be his/her free act and deed.

Notary Public

AMAY 30, 2008 MAY 30, 2008

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Attorney Docket No.: EMC2-140PUS

State or Commonwealth of MASSACHUSE175

County 7/11/11/19.58 X

Dated JARCH 28, 2003

Brian K. Campbell

On this <u>John Mark</u>, 2003, before me appeared Brian K. Campbell, to me known and known to me as the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

Notarý Public

LE COMMISSION EXPIRES MAY SO, 2008

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Attorney Docket No.: EMC2-140PUS

On this day of day of , 2003, before me appeared Jane Xu, to me known and known to me as the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

Notary Public

UDDAMMISSION EXPIRES MAY 60, 2008

Filed On: Filed Herewith

Attorney Docket No.: EMC2-140PUS

State or Commonwealth of 1/455104657775

County .

Dated 7/1/24 78,2003

Eni Bur

On this _______, 2003, before me appeared Eric J. Bruno, to me known and known to me as the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

Notary Public

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RECORDED: 03/31/2003