


<div style="display: flex; justify-content: space-between;"> F 01-19-1999 IR SHEET </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <p>12-30-98</p> <p>FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)</p> </div> <div style="text-align: center;">  <p>100944351</p> </div> <div style="text-align: right;"> <p>U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office</p> </div> </div>	
To the : Please record the attached original documents or copy thereof.	
<p>1. Name of conveying party(ies): Matthew J. D'Errico, Steven M. Blumenau, Erez Ofer</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: EMC Corporation</p> <p>Internal Address:</p> <p>Street Address: 171 South Street</p> <p>Hopkinton, MA 01748</p> <p>Additional name(s) & addresses(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: December 29, 1998</p>	<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is December 29, 1998</p> <p>A. Patent Application No.(s) _____ B. Patent No.(s) _____</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence Concerning document should be mailed:</p> <p>Name: Richard F. Giunta</p> <p>Address: WOLF, GREENFIELD & SACKS, P.C. Federal Reserve Plaza 600 Atlantic Avenue Boston, MA 02210</p>	<p>6. Total number of applications and patents involved: [1]</p> <p>7. Total fee (37 CFR 3.41).....\$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p>The Commissioner is authorized to charge:</p> <p>8. Deposit Account No: 23/ 825</p>
DO NOT USE THIS SPACE	
<p>9. Statement and signature <i>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.</i></p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 30%;"> <p><u>Richard F. Giunta</u></p> <p>Name of Person Signing</p> </div> <div style="width: 30%;"> <p><u>Richard F. Giunta</u></p> <p>Signature</p> </div> <div style="width: 30%;"> <p><u>12/30/98</u></p> <p>Date</p> </div> </div>	
Total number of pages including cover sheet, attachments, and document: [4]	

Mail documents to be recorded with required cover sheet information to:
Box Assignment, Washington, D.C. 20231

PATENT
REEL: 9696 FRAME: 0890

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Matthew J. D'Errico, 9 Banfill Lane, Southboro, MA 01772, Steven M. Blumenau, 170 Holly Lane, Holliston, MA 01746, and Erez Ofer, 1530 Beacon Street, Apt. 501, Brookline, MA 02146 hereby

Sell, assign and transfer to EMC Corporation, a Massachusetts corporation having a place of business at 171 South Street, Hopkinton MA 01748, 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 executed of even date herewith and entitled **METHOD AND APPARATUS FOR MANAGING THE PLACEMENT OF DATA IN A STORAGE SYSTEM TO ACHIEVE INCREASED SYSTEM PERFORMANCE**, 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: _____

MATTHEW J. D'ERRICO

STATE OF _____ :
COUNTY OF _____ :

Subscribed and sworn to before me this _____ day of _____.

SEAL

Notary Public

My Commission Expires: _____

Dated: 11/1/11

Steven M. Blumenau
STEVEN M. BLUMENAU

STATE OF Massachusetts :
COUNTY OF Worcester :

Subscribed and sworn to before me this 1st day of December.

SEAL

Steven M. Blumenau
Notary Public

My Commission Expires: 1/1/12

Dated: 11/19/98

EREZ OFER

STATE OF NY :

COUNTY OF Westchester :

Subscribed and sworn to before me this 19 day of November.

SEAL

[Signature]
Notary Public

My Commission Expires: 6 1999