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U.S. DEPARTMENT DE COMMERCE Patent and Trademark Office

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OMB No. 0651-0011 (exp. 4/94) To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies) Natan Vishlitzky Name: EMC Corporation Additional name(s) of conveying party(ies) attached? [] Yes [x] No Internal Address: 3. Nature of conveyance: [x] Assignment [] Merger Street Address: 171 South Street [] Security Agreement [] Change of Name [] Other Hopkinton, MA 01748-9103 Execution Date: August 24, 1998 Additional name(s) & addresses(es) attached? [] Yes [] No 4. Application number(s) or patent number(s): Patent Application No.(s) B. Patent No.(s) 09/107,613 Additional numbers attached? [] Yes [x] No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] Concerning document should be mailed: Richard F. Giunta Name: 7. Total fee (37 CFR 3.41).....\$ 40.00 Address: WOLF, GREENFIELD & SACKS, P.C. Federal Reserve Plaza [x] Enclosed 600 Atlantic Avenue [] Authorized to be charged to deposit account Boston, MA 02210 The Commissioner is authorized to charge: 8. Deposit Account No: 23/2825 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 opy is a true copy of the original document. Robert A. Skrivanek, Jr. Registration No. 41,316 Septer#ber 30, 1998 Name of Person Signing Stgnature **5**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

PATENT

REEL: 9503 FRAME: 0719

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I the undersigned, Natan Vishlitzky, 4 Alton Court, Unit #1, 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 01748-9103, 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 June 30, 1998, under Serial No. 09/107,613 and entitled METHOD AND APPARATUS FOR MANIPULATING LOGICAL OBJECTS IN A DATA STORAGE SYSTEM, 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

197255.1

PATENT REEL: 9503 FRAME: 0720 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: 8/24/98

Natan Vishlitzk

STATE OF MUSSACHUSETS

Subscribed and sworn to before me this

is <u>74</u> day of _

Notary Public

SEAL

My Commission Expires April 21, 2000

My Commission Expires

197255.1 **-2**-

RECORDED: 10/05/1998

PATENT REEL: 9503 FRAME: 0721