

12-13-2001



Form PTO-1595

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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

101915099

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

1. Name of conveying party(ies):

Natan Vishlitzky
Haim Kopylovitz

11-15-01

2. Name and address of receiving party(ies)

Name: Penelope S. Wilson, Esq.Internal Address: EMC Corporation101915099
10/001717Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____Street Address: 35 Parkwood DriveCity: Hopkinton State: MA Zip: 01748Execution Date: 11/14/2001 & 11/15/2001Additional name(s) & address(es) attached? ☐ Yes ☒ No

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: 11/15/01

A. Patent Application No.(s)

B. Patent No.(s)

10/001717

Additional numbers attached? ☐ Yes ☒ No

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

Name: Penelope S. Wilson, Esq.Internal Address: EMC CorporationStreet Address: 35 Parkwood DriveCity: Hopkinton State: MA Zip: 017486. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

05-0889

(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.*Penelope S. Wilson, Reg. 29,751

Name of Person Signing

Penelope S. Wilson
Signature11/15/01
DateTotal number of pages including cover sheet, attachments, and documents 5Mail documents to be recorded with required cover sheet information to:
10001717 Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

12/07/2001 CV0111 00000018 050889

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PATENT
REEL: 012355 FRAME: 0523

ASSIGNMENT

Whereas, we,

Natan Vishlitzky, 87 Clinton Road, Brookline, MA 02445; and

Haim Kopylovitz, 76 Columbia Street #2, Brookline, MA 02146

have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled "Digital Data Storage Subsystem Including Directory For Efficiently Providing Formatting Information For Stored Records," which application is filed herewith and identified by Attorney Docket Number 01-080;

Whereas EMC Corporation, a corporation having a place of business at 171 South Street, Hopkinton, MA 01748-9103 and who, 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 reservations:

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 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 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;

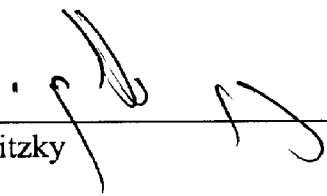
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

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.

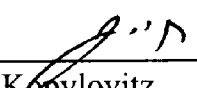
In testimony of which we have signed our names below, on the date indicated.



 Natan Vishlitzky
 Inventor

11/13/01

 Date



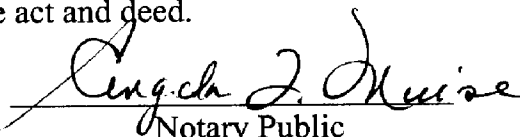
 Haim Kopylovitz
 Inventor

11/14/2001

 Date

State of Massachusetts)
)ss.
 County of MIDDLESEX)

On this 15th day of NOVEMBER, 2001, before me appeared Natan Vishlitzky, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



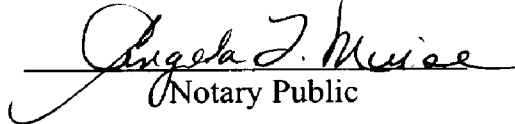
 Notary Public

[Seal]

ANGELA E. MUISE
 Notary Public
 My Commission Expires February 12, 2004

State of Massachusetts)
)ss.
County of MIDDLESEX)

On this 14TH day of NOVEMBER, 2001, before me appeared Haim Kopylovitz, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.


Notary Public

[Seal]

ANGELA F. MUISE
Notary Public
My Commission Expires February 12, 2004