

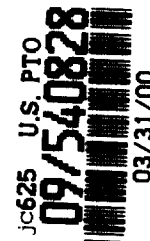
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Assistant Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies):
Yuval Ofek, David L. Black,
Stephen D. MacArthur, Richard Wheeler and
Robert Thibault
Additional name(s) attached? Yes No

2. Name and address of receiving party(ies):
EMC CORPORATION
171 South Street
Hopkinton, MA 01748-9103
Additional names/addresses attached? Yes No

3. Nature of conveyance:
 Assignment
 Merger
 Security Agreement
 Change of Name
 Other
Execution Date: Yuval Ofek 3/30/00,
David L. Black 3/30/00, Stephen D. MacArthur
3/30/00, Richard Wheeler 3/30/00, and
Robert Thibault 3/30/00

4. Application number(s) or patent number(s):
If this document is being filed with a new application, the execution date of the application is: 3/30/00
A. Patent Application No(s):
B. Patent No(s):
Additional numbers attached? Yes No

3-31-00

5. Name/address of party to whom correspondence concerning document should be mailed:
RICHARD M. SHARKANSKY
Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804

6. Total number of applications/patents involved: 1
7. Total fee (37 CFR §3.41): \$40
 Enclosed
 Authorized to charge Deposit Account.
8. Deposit Account No.: 06-1050
Please apply any additional charges, or any credits, to our
Deposit Account No. 06-1050.

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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
Name of Person Signing

Signature

3/31/00
Date

Total number of pages including coversheet, attachments and document: 7

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EL48552227US

I hereby certify under 37 CFR §1.10 that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee with sufficient postage on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

March 31, 2000
Date of Deposit

Signature

Samantha Bell
Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, we, YUVAL OFEK of Framingham, MA, DAVID L. BLACK of Acton, MA, STEPHEN D. MACARTHUR of Northborough, MA, RICHARD WHEELER of Belmont, MA, ROBERT THIBAUT of Westboro, MA, hereby assign to EMC CORPORATION, a Massachusetts corporation having a place of business at: 171 South Street, Hopkinton, MA 01748-9103 and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled DATA STORAGE SYSTEM HAVING SEPARATE DATA TRANSFER SECTION AND MESSAGE NETWORK, filed _____, and assigned U.S. Serial Number _____, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at HOPKINTON, MA.
this 30th day March of, 2002
YUVAL OFEK / ofek L.S.

State of Massachusetts

: ss.

County of Middlesex:

Before me this 30th day of March, 2002, personally appeared YUVAL OFEK known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Maksha R. Ballantyne
Notary Public

My Commission Expires:

[Notary's Seal Here]

MAKSHA R. BALLANTYNE
Notary Public
My Commission Expires October 2, 2002

IN WITNESS WHEREOF, I hereto set my hand and seal at HOPKINTON MA,

this 30th day March of, 2000

David L. Black L.S.
DAVID L. BLACK

State of Massachusetts

: ss.

County of Middlesex:

Before me this 30th day of March, 2000, personally appeared DAVID L. BLACK known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Marsha R. Ballantine
Notary Public

My Commission Expires:

[Notary's Seal Here]

MARSHA R. BALLANTINE
Notary Public
My Commission Expires: 03/31/01

IN WITNESS WHEREOF, I hereto set my hand and seal at HOPKINTON MA,
this 30th day March of, 20 09

[Signature]
STEPHEN D. MACARTHUR _____ L.S.

State of Massachusetts

: ss.

County of Middlesex :

Before me this 30th day of March, 20 09, personally
appeared STEPHEN D. MACARTHUR known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that he executed the same as his free act and
deed for the purposes therein contained.

[Signature]

Notary Public

My Commission Expires:

[Notary's Seal Here]

MARSHA R. BALLANTYNE
Notary Public
The Commission Expires October 2, 2012

IN WITNESS WHEREOF, I hereto set my hand and seal at HOPKINTON, MA

this 30th day of March of, 2002

Richard Wheeler L.S.
RICHARD WHEELER

State of Massachusetts

: ss.

County of Middlesex:

Before me this 30th day of March, 2002, personally appeared RICHARD WHEELER known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Marsha R. Ballantyne
Notary Public

My Commission Expires:

[Notary's Seal Here]

MARSHA R. BALLANTYNE
Notary Public
My Commission Expires October 2, 2003

IN WITNESS WHEREOF, I hereto set my hand and seal at Hopkinton, MA
this 30th day March of, 20 00
Robert Thibault L.S.
ROBERT THIBAUT

State of Massachusetts

: ss.

County of Middlesex:

Before me this 30th day of March, 20 00, personally
appeared ROBERT THIBAUT known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Marsha R. Ballantyne
Notary Public

My Commission Expires:

[Notary's Seal Here]

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MARSHA R. BALLANTYNE
Notary Public
My Commission Expires October 2, 2008