

05-12-1999



101034605

MERCE

Patent and Trademark Office

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

RECORDATION FORM COVER SHEET
PATENTS ONLY

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

1. Name of conveying party(ies):
Zoran Cakeljic, Yuval Ofek, Haim Bitner, Sharon Galtzur, Ariel J. Ish-Shalom, Nadav Kedem, Samuel Krikler and Dan Arnon
Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party(ies)
Name: EMC Corporation
Internal Address:
Street Address: 171 South Street, Hopkinton, MA 01748-9103
Additional name(s) & addresses(es) attached? [] Yes [X] No

3. Nature of conveyance:
[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other _____
Execution Date: 4/19/99, 4/22/99, 4/23/99 and 4/26/99

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
A. Patent Application No.(s)
09/224,637
B. Patent No.(s)
Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence Concerning document should be mailed:
Name: Matthew B. Lowrie
Address: WOLF, GREENFIELD & SACKS, P.C.
Federal Reserve Plaza
600 Atlantic Avenue
Boston, MA 02210

6. Total number of applications and patents involved: [1]
7. Total fee (37 CFR 3.41).....\$ 40.00
[X] Enclosed
[] Authorized to be charged to deposit account
The Commissioner is authorized to charge:
8. Deposit Account No: 23/2825

05/10/1999 JSHABAZZ 00000191 09224637

01 FC:581

(40.00 DP)

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.
Matthew B. Lowrie
Signature
Date: May 3, 1999

Total number of pages including cover sheet, attachments, and document: [12]

Mail documents to be recorded with required cover sheet information to:
Box Assignment, Commissioner of Patents and Trademarks,
Washington, D.C. 20231

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned Yuval Ofek, 20 Lanterns Road, Framingham, MA 01702; Zoran Cakeljic, 135 Florence Street, #19, Newton, MA 02467; Haim Bitner, 4 Hagdud Haivri Street, Raanana, 43-560 Israel; Sharon Galtzur, Kedoshey Kahiv 6, Holon, Israel; Ariel J. Ish-Shalom, 17 Hasavorian Street, Tel-Aviv, 69207, Israel; Nadav Kedem, 37 Tagor Street, Tel-Aviv, 69203, Israel; Samuel Krikler, Boaz 6/6, Ramat HaSharon 47402, Israel; Dan Arnon, 78 Montgomery Street, Boston, MA 02116 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 December 31, 1998 under Serial No. 09/224,637 and entitled APPARATUS AND METHODS FOR OPERATING A COMPUTER 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.

We 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, we 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 us 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.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

We 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 us and that full right to convey the same as herein expressed is possessed by us.

4/23/99
Date

[Signature]
YUVAL OFEK

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 23 day of April 1999.

SEAL

[Signature]
Notary Public

My Commission Expires _____ My Commission Expires April 21, 2000

4/23/99
Date

[Signature]
ZORAN CAKELJIC

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 23 day of April 1999.

SEAL

[Signature]
Notary Public

My Commission Expires _____ My Commission Expires April 21, 2000

Date

HAIM BITNER

STATE OF _____ :

COUNTY OF _____ :

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

SEAL

Notary Public

My Commission Expires _____

Date

SHARON GALTZUR

STATE OF _____ :

COUNTY OF _____ :

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

SEAL

Notary Public

My Commission Expires _____

Date

ARIEL J. ISH-SHALOM

STATE OF _____ :
COUNTY OF _____ :

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

SEAL

Notary Public

My Commission Expires _____

4.26.99
Date

Nadav KeDEM
NADAV KEDEM

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 26 day of April 1999.

SEAL

Heather Lynn LaPointe
Notary Public

My Commission Expires April 21, 2003

My Commission Expires _____

4/22/99
Date

[Signature]
SAMUEL KRIKLER

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 22 day of April 1999.

SEAL

Heather Lynn LaPointe
Notary Public

My Commission Expires April 21, 2000

4/23/99
Date

Dan Arnon
DAN ARNON

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 23 day of April 1999.

SEAL

Heather Lynn LaPointe
Notary Public

My Commission Expires April 21, 2000

E0295/7080 MBL

ASSIGNMENT



In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned Yuval Ofek, 20 Lanterns Road, Framingham, MA 01702; Zoran Cakeljic, 135 Florence Street, #19, Newton, MA 02467; Haim Bitner, 4 Hagdud Haivri Street, Raanana, 43-560 Israel; Sharon Galtzur, Kedoshey Kahiv 6, Holon, Israel; Ariel J. Ish-Shalom, 17 Hasavorian Street, Tel-Aviv, 69207, Israel; Nadav Kedem, 37 Tagor Street, Tel-Aviv, 69203, Israel; Samuel Krikler, Boaz 6/6, Ramat HaSharon 47402, Israel; Dan Arnon, 78 Montgomery Street, Boston, MA 02116 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 December 31, 1998 under Serial No. 09/224,637 and entitled APPARATUS AND METHODS FOR OPERATING A COMPUTER 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.

We 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, we 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 us 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.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

We covenant with said Assignee that no assignment, grant, mortgage, license or

243010.1



other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

Date YUVAL OFEK

STATE OF _____ :
COUNTY OF _____ :

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

SEAL _____
Notary Public

My Commission Expires _____

Date ZORAN CAKELJIC

STATE OF _____ :
COUNTY OF _____ :

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

SEAL _____
Notary Public

My Commission Expires _____



April 19, 1993
Date

Haim Bitner
HAIM BITNER

STATE OF _____ :
COUNTY OF _____ :

Subscribed and sworn to before me this 19 day of April 1993.

SCHRAGA SCHWARTZ
ADVOCATE & NOTARY
5, JABOTINSKI ST. RAMAT-GAN, ISRAEL
TEL. 03-5754255

SEAL

Notary Public

My Commission Expires _____

April 19, 1993
Date

SHARON GALTZUR

STATE OF _____ :
COUNTY OF _____ :

Subscribed and sworn to before me this 15 day of April 1993.

SCHRAGA SCHWARTZ
ADVOCATE & NOTARY
5, JABOTINSKI ST. RAMAT-GAN, ISRAEL
TEL. 03-5754255

SEAL

Notary Public

My Commission Expires _____

RR

April 17, 1997
Date

Ariel J. Ish-Shalom
ARIEL J. ISH-SHALOM

STATE OF _____ :
COUNTY OF _____ :

Subscribed and sworn to before me this 19 day of April 1997.

SEAL

S. Schwartz
SCHRAGA SCHWARTZ
ADVOCATE & NOTARY
5 JABOTINSKI ST. RAMAT-GAN, ISRAEL
TEL. 03-5754255
Notary Public

My Commission Expires _____

Date

NADAV KEDEM

STATE OF _____ :
COUNTY OF _____ :

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

SEAL

Notary Public

My Commission Expires _____

Date

SAMUEL KRIKLER

STATE OF _____ :

COUNTY OF _____ :

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

SEAL

Notary Public

My Commission Expires _____

Date

DAN ARNON

STATE OF _____ :

COUNTY OF _____ :

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

SEAL

Notary Public

My Commission Expires _____

243010.1