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**PATENT**  
**REEL: 013150 FRAME: 0601**

03-11-2002



SHEET

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

1. Name of conveying party(ies):

Ofer Michael, Nadav Popplwell, Hagai Dagan  
and Leo Cory

Additional name(s) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

EMC Corporation  
171 South Street  
Hopkinton, MA 01748-9103

3. Nature of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

Execution Date: 11/20/2001(Michael);  
12/05/2001(Popplwell); 11/20/2001(Dagan);  
11/29/2001(Cory)

Additional names/addresses attached? ☐ Yes ☒ No

OFFICE OF CIVIL RECORDS  
2002 FEB 22 AM 10:41  
FINANCE SECTION 101

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:

A. Patent Application No(s):

09/953,226

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

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

FAUSTINO A. LICHAUCO  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, Massachusetts 02110-2804

6. Total number of applications/patents involved:

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.

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.*

Faustino A. Lichauco

Reg. No. 41,942

Name of Person Signing

Signature

Date

January 17, 2002

Total number of pages including coversheet, attachments and document: 18

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

1/17/02  
Date of Deposit

Signature

Typed Name of Person Signing Certificate

Carla F. Odette

PATENT  
REEL: 013150 FRAME: 0602

## ASSIGNMENT

For valuable consideration, we, OFER MICHAEL of 37 Salisbury Road, Newton, MA 02458, NADAV POPPLWELL of Kibutz nirim, Hanegev, P.O. 85125, Israel, HAGAY DAGAN of Moshav Talme-Eli'yaho, Meshek 28, 85452, Israel, LEO CORY of Bernstein 92, Ramat Gan 52247, Israel, 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, entitled GRAPHICAL COMPILER, filed September 14, 2001, and assigned U.S. Serial Number 09/953,226, 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,  
this 20 day of 11, 2001  
Offer Michael L.S.  
OFER MICHAEL

State of MASSACHUSETTS:  
: SS.  
County of MIDDLESEX :

Before me this 20th day of NOVEMBER, 2001, personally  
appeared OFER MICHAEL 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.

Angela J. Muise  
Notary Public

My Commission Expires:

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

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
NADAV POPPLWELL L.S.

State of \_\_\_\_\_ :  
: ss.

County of \_\_\_\_\_ :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally  
appeared NADAV POPPLWELL 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.

\_\_\_\_\_  
Notary Public

My Commission Expires:

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Hopkinton,  
this 20 day of November, 2001  
HAGAY DAGAN L.S.

State of MASSACHUSETTS :  
: SS.  
County of Middlesex :

Before me this 20th day of NOVEMBER, 20\_\_\_\_\_, personally  
appeared HAGAY DAGAN 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.

Angela E. Muise  
Notary Public

My Commission Expires:

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

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
LEO CORY L.S.

State of \_\_\_\_\_ :  
: ss.  
County of \_\_\_\_\_ :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally  
appeared LEO COR.Y 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.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

[Notary's Seal Here]

# AUTHENTICATION OF SIGNATURE

Droznayak Elena

I the undersigned \_\_\_\_\_

Notary at Ramat Gan, Israel

hereby certify that on 29.11.01

there appeared before me at my office.:

1. Mr./Mrs./Miss Cory Leo

known to me personally / whose identity was proved

to me by Identity Booklet / Passport No. 017634858

issued by Ministry of interior

at Beer Sheva on 20.02.90

2. Mr./Mrs./Miss \_\_\_\_\_

known to me personally / whose identity was proved

to me by Identity Booklet / Passport No. \_\_\_\_\_

issued by \_\_\_\_\_

at \_\_\_\_\_ on \_\_\_\_\_

Mr./Mrs./Miss \_\_\_\_\_

known to me personally / whose identity was proved

to me by Identity Booklet / Passport No. \_\_\_\_\_

issued by \_\_\_\_\_

at \_\_\_\_\_ on \_\_\_\_\_

Mr./Mrs./Miss \_\_\_\_\_

known to me personally / whose identity was proved

to me by Identity Booklet / Passport No. \_\_\_\_\_

issued by \_\_\_\_\_

at \_\_\_\_\_ on \_\_\_\_\_

signed of his / her / their own free will the annexed document

document A document overleaf.

LESS WHEREOF I HEREBY AUTHENTICATE THE SIGNATURES OF

Cory Leo 3. \_\_\_\_\_

4. \_\_\_\_\_

signature and seal this. 29.11.01

6 fees paid.

SEAL  
חותם

## אימות חתימה

דרוז'ניאק אלנה

אני הח"מ

רמת-גן, ישראל

נוטריון ב-

מאשר כי ביום 29.11.01 ניצב (ה) (ו) לפני במשרדי

(1) מר (ת) קורי ליאו הידוע (ה) לי אישית

017634858

שזהותו (ה) הוכחה לי על פי ת.ז./דרכון מס'

באר-שבע

ב- 20.02.90 שניתן מאת משרד הפנים

ביום

(2) מר (ת) הידוע (ה) לי אישית

שזהותו (ה) הוכחה לי על פי ת.ז./דרכון מס'

ב- שניתן מאת

ביום

(3) מר (ת) הידוע (ה) לי אישית

שזהותו (ה) הוכחה לי על פי ת.ז./דרכון מס'

ב- שניתן מאת

ביום

(4) מר (ת) הידוע (ה) לי אישית

שזהותו (ה) הוכחה לי על פי ת.ז./דרכון מס'

ב- שניתן מאת

ביום

וחתם (ה) (ו) מרצונו (ה) (ס) החפשי על המסמך המצורף והמסומן

באות/במספר א'

ולראיה הנני מאמת את חתימתו (ה) (ס) של

מר (ת) קורי ליאו מר (ת)

מר (ת) מר (ת)

בחתמת ידי ובחותמי, היום 29.11.01

שכר בסך 146 ש"ח שולם.



חתימה  
SIGNATURE

PATENT



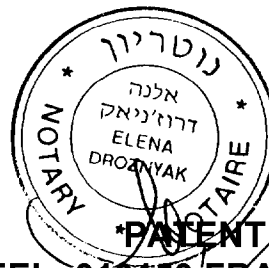
ASSIGNMENT

For valuable consideration, we, OFER MICHAEL of 37 Salisbury Road, Newton, MA 02458, NADAV POPPLWELL of Kibutz nirim, Hanegev, P.O. 85125, Israel, HAGAY DAGAN of Moshav Talme-Eli'yaho, Meshek 28, 85452, Israel, LEO CORY of Bernstein 92, Ramat Gan 52247, Israel, 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, entitled GRAPHICAL COMPILER, filed September 14, 2001, and assigned U.S. Serial Number 09/953,226, 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,  
this 20 day of 11, 2001  
C. Michael L.S.  
OFER MICHAEL

State of MASSACHUSETTS:

: ss.

County of MIDDLESEX :

Before me this 20th day of NOVEMBER, 2001, personally  
appeared OFER MICHAEL 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.

Angela J. Muise  
Notary Public

My Commission Expires:

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

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
NADAV POPPLWELL L.S.

State of \_\_\_\_\_ :  
: ss.

County of \_\_\_\_\_ :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally  
appeared NADAV POPPLWELL 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.

\_\_\_\_\_  
Notary Public

My Commission Expires:

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Hopkinton,  
this 20 day of November, 2003  
HAGAY DAGAN L.S.

State of MASSACHUSETTS :  
: ss.

County of Middlesex :

Before me this 20th day of NOVEMBER, 2003, personally  
appeared HAGAY DAGAN 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.

Angela L. Muise  
Notary Public

My Commission Expires:

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

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Ramat Gan,  
this 29<sup>th</sup> day of November, 2001

\_\_\_\_\_  
LEO CORY

L.S.

State of \_\_\_\_\_ :

: ss.

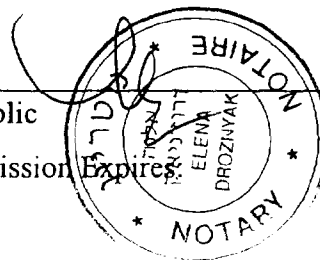
County of Israel :

Before me this 29 day of November, 2001, personally  
appeared LEO COR.Y 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.

Notary Public

My Commission Expires

[Notary's Seal Here]



20345325.doc

No. 243/01

AUTHENTICATION OF SIGNATURE

מס. 243/01

אימות חתימה

I the undersigned, M. KAMINETZKY  
Notary at 55 Haizmauth Beer Sheva, ISRAEL  
hereby certify that on 5th December 2001  
there appeared before me at my office Mr. (Mrs.)  
Mrs. NADAV POPPLEWELL who is  
known to me personally (whose identity was proved to  
me by Identity Booklet 028974798  
(Passport) No. .... Issued by Interior  
MINISTRY at Beer-Sheva on 10.12.89  
and signed of his (her) own free will the above  
document (the attached document marked "A"  
(the document overleaf).

In witness whereof I hereby authenticate the signa-  
ture(s) of Mr. (Mrs., Messrs., Mesdames, Misses) .....

NADAV POPPLEWELL by my own signature and  
seal this 5th December 2001  
5204- fees paid.

חותם דגוסריון  
Notary's Seal

אני החתום מר מרס קמניטזקי  
נאמין ב בשרה, חאזמא - 55 ירמ  
מאשר כי ביום 5.12.01  
מרת נאדאב פופלול (היא)  
(שזהותה) הוכחה לי על פי תעודת זהות (היא).  
מספר 028974798 דרכוניה) מספר  
שניתנה) מאת משרד הפנים ב בשרה  
ביום 10.12.89 ותחת (החתימה) מרצונו (על) (היא)  
החפשי על המסמך שלעיל (המצורף והמסומן באות/במספר  
"A" (שמצורף לבח).

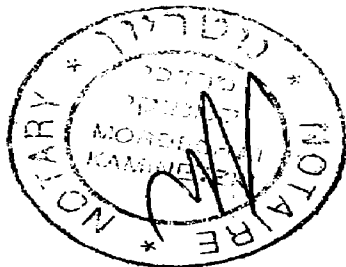
ולראיה וצני מאמת את התימנה) (ס) של מרת)

(היא) נאדאב פופלול 221  
5.12.01 בתמימת ידי וכוותמי, היום  
שכר בסך 5204- שולם

חתימה  
(Signature)

\* Where more than one person appeared, each should be named  
separately, specifying the manner in which his or her identity  
was proved.  
Note: Delete whatever is inapplicable.

\* נמצאו יותר מאדם אחד, יש לפרש בשמו של כל אחד לחוד בציון  
דרך והוכחה הוועת שנקטו לנבית.  
הערה: מחק את הסעון מחיקה.



סופס מס' 1 תקנת הנסריונים תשל"ז דד

A

Handwritten mark resembling a stylized 'M' or 'W' inside a circle.

ASSIGNMENT

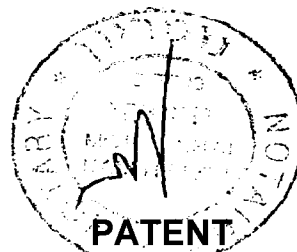
For valuable consideration, we, OFER MICHAEL of 37 Salisbury Road, Newton, MA 02458, NADAV POPPLWELL of Kibutz nirim, Hanegev, P.O. 85125, Israel, HAGAY DAGAN of Moshav Talme-Eli'yaho, Meshek 28, 85452, Israel, LEO CORRY of Bernstein 92, Ramat Gan 52247, Israel, hereby assign to:

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, entitled GRAPHICAL COMPILER, filed September 14, 2001, and assigned U.S. Serial Number 09/953,226, 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.

Nodav Popplewell



IN WITNESS WHEREOF, I hereto set my hand and seal at Hopkinton  
this 22 day of 11, 2001  
C. Michael L.S.  
OFER MICHAEL

State of MASSACHUSETTS:  
: ss.

County of MIDDLESEX :

Before me this 20th day of NOVEMBER, 2001, personally  
appeared OFER MICHAEL 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.

Angela J. Muise  
Notary Public

My Commission Expires:

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

[Notary's Seal Here]



IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this 5 day of December, 2001  
Nadav Popplwell L.S.  
NADAV POPPLWELL

State of \_\_\_\_\_ :  
: ss.  
County of \_\_\_\_\_ :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally  
appeared NADAV POPPLWELL 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.

\_\_\_\_\_  
Notary Public

My Commission Expires:

[Notary's Seal Here]



IN WITNESS WHEREOF, I hereto set my hand and seal at Hypkinton  
this 20 day of November, 2019  
HAGAY DAGAN L.S.

State of MASSACHUSETTS :  
: ss.

County of Middlesex :

Before me this 20th day of NOVEMBER, 2019, personally  
appeared HAGAY DAGAN 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.

Angela F. Muise  
Notary Public

My Commission Expires:

ANGELA F. MUISE  
Notary Public  
My Commission Expires February 12, 2021

[Notary's Seal Here]

[Signature]

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
LEO CORY

State of \_\_\_\_\_ :

: ss.

County of \_\_\_\_\_ :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, per  
appeared LEO CORY known to me to be the person whose name is subscribed to the fo  
Assignment and acknowledged that he executed the same as his free act and deed for the  
purposes therein contained.

\_\_\_\_\_  
Notary Public

My Commission Expires:

[Notary's Seal Here]

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