

05-29-2002

FORM PTO-1595  
(Rev. 6-93)

U. S. Department of Commerce

OMB No. 0651-0011 (exp. 4/94)

102105566  
PATENTS ONLY

Patent and Trademark Office

05/16/02 To the Honorable Commissioner for Patents: Please record the attached original document or copy thereof.	
1. Name of conveying party(ies): Suchitra Raman, Philippe Armangau, Milena Bergant, Raymond A. Angelone, Jean-Pierre Bono, Uresh Vahalia, Uday K. Gupta Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: EMC Corporation Street Address: 35 Parkwood Drive City: Hopkinton State: MA Zip: 01748 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date:	
4. Application number(s) or registration number(s): 10/147751 If this document is being filed together with a new application, the execution date of the application is: May 9, 2002 and May 14, 2002 A. Patent Application No.(s): B. Patent No.(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Richard C. Auchterlonie, Esq. Howrey Simon Arnold & White, LLP 750 Bering Drive City: Houston State: Texas Zip: 77057-2198	6. Total number of applications and patents involved: 1 7. Total fee (37 C.F.R. 3.41)----- \$ 40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account if check insufficient or inadvertently omitted 8. Deposit account number: 05-0889/EMC-02-031 (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. Richard C. Auchterlonie Name of Person Signing, Reg. No. 30,607 Signature: <i>Richard C. Auchterlonie</i> Date: 5/16/02 Total number of pages including cover sheet, attachments and documents: 12	

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EXPRESS MAIL MAILING LABEL NUMBER EL 831848059 US

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to EMC CORPORATION (the "Assignee"), having a place of business at 35 Parkwood Ave., Hopkinton, MA 01748-9103, their entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "REPLICATION OF REMOTE COPY DATA FOR INTERNET PROTOCOL (IP) TRANSMISSION," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

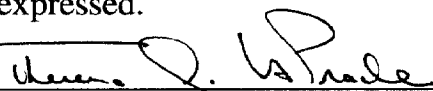
COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature:  Date: 5/14/2002  
Name: Suchitra Raman

STATE OF Massachusetts )  
 ) ss.  
COUNTY OF USA )

BEFORE ME, the undersigned authority, on this 14<sup>th</sup> day of May, 2002, personally appeared Suchitra Raman, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: Philippe Armangau

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 2002, personally appeared Philippe Armangau, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_  
Name: Milena Bergant

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 2002, personally appeared: Milena Bergant, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_  
Name: Raymond A. Angelone

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 2002, personally appeared Raymond A. Angelone, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Jean-Pierre Bono

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 2002, personally appeared Jean-Pierre Bono, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Uresh Vahalia

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 2002, personally appeared Uresh Vahalia, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_  
Name: Uday K Gupta

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 2002, personally appeared Uday K. Gupta, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

HOWREY SIMON ARNOLD & WHITE, LLP  
750 Bering Drive  
Houston, Texas 77057-2198

1299 Pennsylvania Avenue, N.W.  
Washington, DC 20004

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to EMC CORPORATION (the "Assignee"), having a place of business at 35 Parkwood Ave., Hopkinton, MA 01748-9103, their entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "REPLICATION OF REMOTE COPY DATA FOR INTERNET PROTOCOL (IP) TRANSMISSION," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: Suchitra Raman

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 2002, personally appeared Suchitra Raman, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: Philippe Armangau Date: 5/9/02  
Name: Philippe Armangau

STATE OF Massachusetts )  
 ) ss.  
COUNTY OF Middlesex )

BEFORE ME, the undersigned authority, on this 9 day of May, 2002, personally appeared Philippe Armangau, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

JULIA-ANNA M. WALECKI, Notary Public  
My Commission Expires July 12, 2002



Signature: Milena Bergant  
Name: Milena Bergant

Date: 05/09/02

STATE OF Massachusetts  
COUNTY OF Middlesex SS.

BEFORE ME, the undersigned authority, on this 9 day of May, 2002, personally appeared: Milena Bergant, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

[Signature]  
Notary or Consular Officer

[SEAL]

JULIA-ANNA M. WALECKI, Notary Public  
My Commission Expires July 12, 2002

Signature: Raymond A. Angelone  
Name: Raymond A. Angelone

Date: May 9, 2002

STATE OF Massachusetts  
COUNTY OF Middlesex SS.

BEFORE ME, the undersigned authority, on this 9 day of May, 2002, personally appeared Raymond A. Angelone, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[Signature]  
Notary or Consular Officer

[SEAL]

JULIA-ANNA M. WALECKI, Notary Public  
My Commission Expires July 12, 2002

Signature: [Signature]  
Name: Jean-Pierre Bono

Date: 05/09/02

STATE OF Massachusetts  
COUNTY OF Middlesex ss.

BEFORE ME, the undersigned authority, on this 9 day of May, 2002, personally appeared Jean-Pierre Bono, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[Signature]  
Notary or Consular Officer

[SEAL]

Signature: Uresh Vahalia  
Name: Uresh Vahalia

Date: 5/9/02

STATE OF Massachusetts  
COUNTY OF Middlesex ss.

BEFORE ME, the undersigned authority, on this 9 day of May, 2002, personally appeared Uresh Vahalia, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[Signature]  
Notary or Consular Officer

[SEAL]

WILLIAM M. WALECKI, Notary Public  
Commission Expires July 12, 2002

Signature: [Signature]  
Name: Uday K Gupta

Date: 5/9/2002

STATE OF Massachusetts  
COUNTY OF Middlesex ) ss.

BEFORE ME, the undersigned authority, on this 9 day of May, 2002, personally appeared Uday K. Gupta, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

[Signature]  
Notary or Consular Officer

JULIA-ANNA M. WALECKI, Notary Public  
My Commission Expires July 12, 2002

HOWREY SIMON ARNOLD & WHITE, LLP  
750 Bering Drive  
Houston, Texas 77057-2198

1299 Pennsylvania Avenue, N.W.  
Washington, DC 20004