
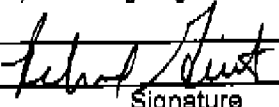


DOCKET NO.: E0295.70215US00

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <p style="font-size: 2em; margin: 0;">11215</p> <p>FORM PTO-1595 U.S. (Rev. 8-93) OMB No. 0651-0011 (exp. 4/94)</p> </div> <div style="text-align: center;"> <p>RECOF</p>  <p style="font-size: 1.5em;">102927129</p> </div> <div style="text-align: right;"> <p>01-27-2005</p> <p>EET</p> </div> </div>		
DEPARTMENT OF COMMERCE Patent and Trademark Office		
To the Commissioner for Patents: Please record the attached original documents or copy thereof.		
<p>1. Name of conveying party(ies): Stephen J. Todd, Michael Killan, Tom Teugels, Frank Matthijs and Kim Marlvoet</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>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 _____ </p> <p>Execution Date: January 4, 2005; January 3, 2005; and December 27, 2004</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: EMC Corporation</p> <p>Internal Address:</p> <p>Street Address: 175 South Street Hopkinton, MA 01748</p> <p>Additional name(s) & addresses(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is January 4, 2005</p> <p>A. Patent Application No.(s) B. Patent No.(s)</p> <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>5. Name and address of party to whom correspondence Concerning document should be mailed:</p> <p>Name: Richard F. Giunta Address: Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue Boston, MA 02210-2206</p>	<p>6. Total number of applications and patents involved: [1]</p> <p>7. Total fee (37 CFR 3.41) \$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p>The Commissioner is authorized to charge any deficiencies in the enclosed payment to:</p> <p>8. Deposit Account No: 23/2825</p>	
DO NOT USE THIS SPACE		
<p>9. Statement and signature <i>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.</i></p>		
<p>Richard F. Giunta</p> <p>Name of Person Signing</p>	 <p>Signature</p>	<p>1/2/05</p> <p>Date</p>
Total number of pages including cover sheet, attachments, and document: [13]		

Mail documents to be recorded with required cover sheet information to (modify as appropriate):

Commissioner of Patents
PO Box 1450, Alexandria, VA 22313-1450

PATENT

REEL: 016555 FRAME: 0080

858991197008

PATENT/Joint Assignment
Attorney Docket No.: E0293.70215US00

ASSIGNMENT

WHEREAS, we, Stephen J. Todd, Michael Kilian, Tom Teugels, Frank Matthijs, and Kim Marivoet have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR MANAGING DELETION OF DATA, the specification of which:

☒ is being executed on even date herewith and is about to be filed in the United States Patent Office;

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: _____

Inventor's Signature

Print full name of first inventor:

Stephen J. Todd

Residence:

36 Thomas Farm Circle, Shrewsbury, MA 01545

Citizenship:

USA

Mailing Address:

36 Thomas Farm Circle, Shrewsbury, MA 01545

STATE/Commonwealth of _____

COUNTY OF _____

On this _____ day of _____, 2004, then personally appeared before me the above-named _____ known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other)

_____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

Print Name: _____

My Commission expires ____ / ____ / ____

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

Date: _____

Inventor's Signature

Print full name of second inventor:

Michael Kilian

Residence:

25 Candleberry Lane, Harvard, MA 01451

Citizenship:

USA

Mailing Address:

25 Candleberry Lane, Harvard, MA 01451

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2004, then personally appeared before me the
above-named _____ known to me through satisfactory evidence of identification ☐
employee identification card; ☐ driver's license; ☐ (other)
_____ to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.

Notary Public

Print Name: _____

My Commission expires ____ / ____ / ____

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

Date:

4/1/2005
Inventor's Signature

Print full name of third inventor:

Tom Teugels

Residence:

Rozenlaan 26, 2900 Schoten, Belgium

Citizenship:

Belgium

Mailing Address:

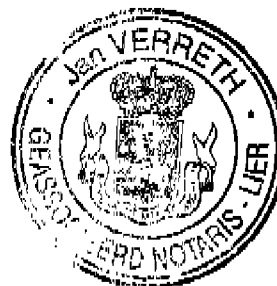
Rozenlaan 26, 2900 Schoten, Belgium

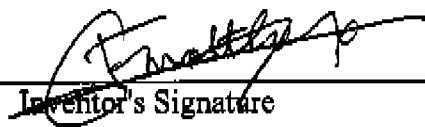
STATE/Commonwealth of
COUNTY OFBelgium

On this 05 day of January, 2005, then personally appeared before me the above-named Tom Teugels known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/~~she~~ executed the same as his/~~her~~ free act and deed for the purposes therein contained.


Notary Public

Print Name: _____

My Commission expires 31 / 12 / 2025

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00Date: 3/1/05
Inventor's Signature

Print full name of third inventor:

Frank Matthys

Residence:

Fresiastraat 29, 9280 Lebbeke, Belgium

Citizenship:


Belgium

Mailing Address:

Fresiastraat 29, 9280 Lebbeke, Belgium

STATE/Commonwealth of
COUNTY OFBelgium

On this 05 day of January, 2005, then personally appeared before me the above-named Frank Matthys known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public

Print Name: _____

My Commission expires 31/12/2025

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

Date: 27/12/2004

Inventor's Signature

Print full name of third inventor:

Kim Marivoet

Residence:

Pakeshof 12, 3360 Lovenjoel, Belgium

Citizenship:

Belgium

Mailing Address:

Pakeshof 12, 3360 Lovenjoel, Belgium

STATE/COMMONWEALTH OF
COUNTY OF

Belgium

On this 05 day of January, 2008, then personally appeared before me the above-named Kim Flavin known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other)

_____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Jan Verreth

Notary Public

Print Name: _____

My Commission expires 31 / 12 / 2025



ASSIGNMENT

WHEREAS, we, Stephen J. Todd, Michael Kilian, Tom Teugels, Frank Matthijs, and Kim Marivoet have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR MANAGING DELETION OF DATA, the specification of which:

☒ is being executed on even date herewith and is about to be filed in the United States Patent Office;

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date:

January 4, 2005


Inventor's Signature

Print full name of first inventor:

Stephen J. Todd

Residence:

36 Thomas Farm Circle, Shrewsbury, MA 01545

Citizenship:

USA

Mailing Address:

36 Thomas Farm Circle, Shrewsbury, MA 01545

STATE/Commonwealth OF

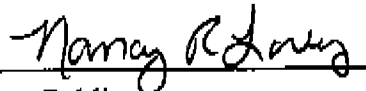
Massachusetts

COUNTY OF

Worcester

On this 4th day of January, 200~~4~~⁵, then personally appeared before me the above-named _____ known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other)

_____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



Notary Public

Print Name: _____

My Commission expires _____

Nancy R. Lovejoy
 Notary Public
 Commonwealth of Massachusetts
 My Commission Expires
 July 14, 2011

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

Date: 4-Jan-2005

Michael Kilian
 Inventor's Signature

Print full name of second inventor:

Michael Kilian

Residence:

25 Candleberry Lane, Harvard, MA 01451

Citizenship:

USA

Mailing Address:

25 Candleberry Lane, Harvard, MA 01451

STATE/Commonwealth of Massachusetts
 COUNTY OF Worcester

On this 4th day of January, 200⁵, then personally appeared before me the above-named Michael Kilian known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) Michael Kilian to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Nancy R. Lowley
 Notary Public

Print Name: Nancy R. Lowley
 Notary Public

My Commission expires Commonwealth of Massachusetts
 My Commission Expires July 14, 2011

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

Date: _____

Inventor's Signature

Print full name of third inventor:

Tom Teugels

Residence:

Rozenlaan 26, 2900 Schoten, Belgium

Citizenship:

Belgium

Mailing Address:

Rozenlaan 26, 2900 Schoten, Belgium

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2004, then personally appeared before me the
above-named _____ known to me through satisfactory evidence of identification ☐
employee identification card; ☐ driver's license; ☐ (other)
_____ to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.

Notary Public

Print Name: _____

My Commission expires ____ / ____ / ____

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

Date: _____

Inventor's Signature

Print full name of third inventor:

Frank Matthijs

Residence:

Fresiastraat 29, 9280 Lebbeke, Belgium

Citizenship:

Belgium

Mailing Address:

Fresiastraat 29, 9280 Lebbeke, Belgium

STATE/Commonwealth of _____

COUNTY OF _____

On this _____ day of _____, 2004, then personally appeared before me the
above-named _____ known to me through satisfactory evidence of identification ☐
employee identification card; ☐ driver's license; ☐ (other)

_____ to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.

Notary Public

Print Name: _____

My Commission expires ____ / ____ / ____

PATENT/Joint Assignment
Attorney Docket No.: E0295.70215US00

Date: _____

Inventor's Signature

Print full name of third inventor:

Kim Marivoet

Residence:

Pakeshof 12, 3360 Lovenjoel, Belgium

Citizenship:

Belgium

Mailing Address:

Pakeshof 12, 3360 Lovenjoel, Belgium

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2004, then personally appeared before me the
above-named _____ known to me through satisfactory evidence of identification ☐
employee identification card; ☐ driver's license; ☐ (other)
_____ to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.

Notary Public

Print Name: _____

My Commission expires ____ / ____ / ____