

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>John P. Field</td> <td>10/19/2012</td> </tr> <tr> <td>Vijayanand Bharadwaj</td> <td>10/17/2012</td> </tr> <tr> <td>David A. Ohsie</td> <td>10/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	John P. Field	10/19/2012	Vijayanand Bharadwaj	10/17/2012	David A. Ohsie	10/19/2012
Name	Execution Date								
John P. Field	10/19/2012								
Vijayanand Bharadwaj	10/17/2012								
David A. Ohsie	10/19/2012								
RECEIVING PARTY DATA									
Name:	EMC Corporation								
Street Address:	176 South Street								
City:	Hopkinton								
State/Country:	MASSACHUSETTS								
Postal Code:	01748								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13632014</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13632014				
Property Type	Number								
Application Number:	13632014								
CORRESPONDENCE DATA									
Fax Number:	5167599512								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	516-759-2722								
Email:	nyoffice@rml-law.com								
Correspondent Name:	Ryan, Mason & Lewis, LLP								
Address Line 1:	90 Forest Avenue								
Address Line 2:	Ryan, Mason & Lewis, LLP								
Address Line 4:	Locust Valley, NEW YORK 11560								
ATTORNEY DOCKET NUMBER:	EMC-12-430								
NAME OF SUBMITTER:	Joseph B. Ryan								
<p>Total Attachments: 4 source=4414-169_ASM#page1.tif source=4414-169_ASM#page2.tif source=4414-169_ASM#page3.tif source=4414-169_ASM#page4.tif</p>									

OP \$40.00 13632014

ASSIGNMENT

WHEREAS, we, John P. Field, Vijayanand Bharadwaj and David A. Ohsie, 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 **PRIVACY-PRESERVING USER ATTRIBUTE RELEASE AND SESSION MANAGEMENT**, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on September 30, 2012 as U.S. Application No. 13/632,014;
- was patented under U.S. Patent No. _____ on _____.

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;

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: Oct. 19, 2012 John P. Field
Inventor's Signature

Print full name of first inventor: John P. Field
Residence: Chatham, New Jersey
Citizenship: United States of America
Mailing Address: 733 River Road
Chatham, New Jersey 07928

STATE/COMMONWEALTH OF NEW JERSEY
COUNTY OF MORRIS

On this 19th day of October, 2012, then personally appeared before me the above-named John P. Field 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.

Carl R. Woodward
Notary Public

Print Name: CARR R. WOODWARD, TM
My Commission expires __/__/__
ATTORNEY AT LAW
STATE OF NEW JERSEY

Date: 10/17/2012

Vijayanand Bharadwaj
Inventor's Signature

Print full name of second inventor: Vijayanand Bharadwaj
Residence: White Plains, New York
Citizenship: India
Mailing Address: 125 Lake Street, Apt. 9D-N
White Plains, New York 10604

STATE/Commonwealth of New York
COUNTY OF Westchester

On this 17th day of October, 2012, then personally appeared before me the above-named Vijayanand Bharadwaj 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.

Maceo McRae
Notary Public
Print Name: Maceo McRae
My Commission expires 03/12/2015

MACEO MCRAE
Notary Public, State of New York
No. 01MC6102469
Qualified in Westchester County NY
Commission Expires March 12, 2015

Date: 10/19/12

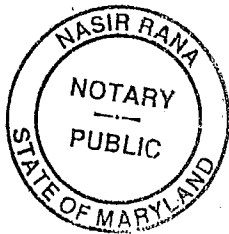
[Signature]
Inventor's Signature

Print full name of third inventor: David A. Ohsie
Residence: Baltimore, Maryland
Citizenship: United States of America
Mailing Address: 6409 Western Run Drive
Baltimore, Maryland 21215

STATE/Commonwealth of Maryland
COUNTY OF Baltimore

On this 19 day of October, 2012, then personally appeared before me the above-named David A. Ohsie 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.

[Signature]
Notary Public



Print Name: NASIR RANA
My Commission expires 11 9 2015