

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3430176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ARI JUELS	07/06/2015
RONALD L. RIVEST	10/30/2014
NIKOLAOS TRIANDOPOULOS	10/31/2014
RECEIVING PARTY DATA	
Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14477152
CORRESPONDENCE DATA	
Fax Number:	(631)393-6271
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	631-393-6270
Email:	nyoffice@rml-law.com
Correspondent Name:	JOSEPH B. RYAN
Address Line 1:	48 SOUTH SERVICE ROAD, SUITE 100
Address Line 2:	RYAN, MASON & LEWIS, LLP
Address Line 4:	MELVILLE, NEW YORK 11747
ATTORNEY DOCKET NUMBER:	EMC-13-1267
NAME OF SUBMITTER:	JOSEPH B. RYAN
SIGNATURE:	/joseph b. ryan/
DATE SIGNED:	07/08/2015
Total Attachments: 8	
source=4414-400_ASM#page1.tif	
source=4414-400_ASM#page2.tif	
source=4414-400_ASM#page3.tif	

source=4414-400_ASM#page4.tif
source=4414-400_ASM#page5.tif
source=4414-400_ASM#page6.tif
source=4414-400_ASM#page7.tif
source=4414-400_ASM#page8.tif

ASSIGNMENT

WHEREAS, we, Kevin D. Bowers, Vihang P. Dudhalkar, Ari Juels, Ronald L. Rivest, Samir Saklikar and Nikolaos Triandopoulos, 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 **AUTHENTICATION BASED ON USER-SELECTED IMAGE OVERLAY EFFECTS**, 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 4, 2014 as U.S. Application No. 14/477,152;

☐ 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: _____
Inventor's Signature _____

Print full name of first inventor: Kevin D. Bowers
Residence: Melrose, Massachusetts
Citizenship: United States of America
Mailing Address: 249 Tremont Street
Melrose, Massachusetts 02176

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 20____, then personally appeared before me the above-named Kevin D. Bowers 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 ____ / ____ / ____

Date: _____

Inventor's Signature

Print full name of second inventor:

Vihang P. Dudhalkar

Residence:

Mumbai, India

Citizenship:

India

Mailing Address:

F/22 Neeta Apartments
Chaphekar Road
Mulund(East)
Mumbai, India 400081

Date

Witness #1 Signature

Witness #1 Print Name

Date

Witness #2 Signature

Witness #2 Print Name

Date:

6 July 2015

[Signature]
Inventor's Signature

Print full name of third inventor:

Ari Juels

Residence:

Brookline, Massachusetts

Citizenship:

United States of America

Mailing Address:

55 Station Street, Apt. 3B
Brookline, Massachusetts 02445

STATE/Commonwealth of
COUNTY OF

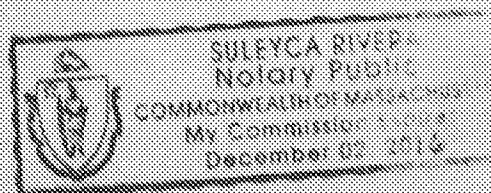
MA
NOVFOR

On this 6th day of July, 2015, then personally appeared before me the
above-named Ari Juels 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: Suleyca Rivera

My Commission expires 12/02/2016



Date: 10/30/14 Ronald L. Rivest
Inventor's Signature

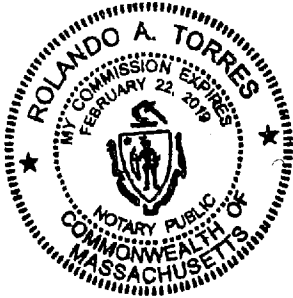
Print full name of fourth inventor: Ronald L. Rivest
Residence: Arlington, Massachusetts
Citizenship: United States of America
Mailing Address: 41 Academy Street
Arlington, Massachusetts 02476

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 30th day of October, 2014, then personally appeared before me the above-named Ronald L. Rivest 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: ROLANDO TORRES
My Commission expires 02/22/2019



Date: _____

Inventor's Signature

Print full name of fifth inventor:

Samir Saklikar

Residence:

Bangalore, Karnataka, India

Citizenship:

India

Mailing Address:

B-206, Aishwarya Amaze
Devarachikanahalli Main Rd
Bomannahalli
Bangalore, Karnataka, India 560076

Date

Witness #1 Signature

Witness #1 Print Name

Date

Witness #2 Signature

Witness #2 Print Name


Date: October 31, 2014


Inventor's Signature

Print full name of sixth inventor: Nikolaos Triandopoulos
Residence: Arlington, Massachusetts
Citizenship: United States of America
Mailing Address: 73 Bartlett Avenue
Arlington, Massachusetts 02476

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 31st day of October, 2014, then personally appeared before me the above-named Nikolaos Triandopoulos known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) Nikolaos Triandopoulos 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: Janet Cunningham
My Commission expires 4/9/2021

