502058070 09/12/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Eyal Kolman	08/06/2012
Yael Villa	08/28/2012
Alon Kaufman	08/28/2012

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:	13538120

CORRESPONDENCE DATA

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 2032556570

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Ryan, Mason & Lewis, LLP

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Address Line 4: Fairfield, CONNECTICUT 06824

ATTORNEY DOCKET NUMBER:	EMC-12-271
NAME OF SUBMITTER:	Kevin M. Mason

Total Attachments: 5

PATENT REEL: 028946 FRAME: 0144 DP \$40.00 135

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PATENT REEL: 028946 FRAME: 0145 FORM PTO-1595

RECORDATION FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE

(Rev.6-93) PA'	TENTS ONLY	Patent and Trademark Office
To the Honorable Commissioner of Patents and	Trademarks: Please record the attached or	riginal documents or copy thereof.
1. Name of conveying party(ies): Eyal Kolman, Yael Villa, Alon Kaufman		ldress of receiving party(ies)
Additional name(s) of conveying party(ies) attached?	Name: EMC Co	orporation
Yes X No	Internal Addres	58:
3. Nature of conveyance: X Assignment _ Merger Security Agreement _ Change of Name		176 South Street
Other	City: Hopkintor	State: MA ZIP: 01748
Execution Date: August 6, 2012, August 28, 2012, August 28, 201	l	& address(es) attached? _ Yes X No
4. Application number(s) or patent number(s). If this document is being filed together with		ecution date of the application is:
A. Patent Application No.(s) 13/538,120 Filed	June 29, 2012 B. Pa	atent No.(s)
Additional numbers attached?Yes X	No	
5. Name and address of party to whom correspondence concerning document should be	6. Total number involved: 1	r of applications and patents
mailed: Name: Kevin M. Mason	7. Total Fee (37)	CFR 3.41) \$ <u>40.00</u>
Internal Address: Ryan, Mason & Lewis, LLP	Enclosed	· · · · · · · · · · · · · · · · · · ·
Street Address: 1300 Post Road, Suite 205	X Authorize	d to be charged to deposit account
City: Fairfield State: CT ZIP: 06824	8. Deposit accoun	nt number 50-0762
DO NOT USE THIS SPACE		
9. Statement and signature. To the best of my knowledge and belief, the forest true copy of the original document.		and correct and any attached copy is a
Kevin M. Mason	M. Mec Signature	Sontombor 12, 2012
Reg. No. 36,597	Signature	September 12, 2012 Date
		_
Total number of pages incl Do not detach this portion	uding cover sheet, attachments, and docume	nt: <u>5</u>
Mail documents to be recorded with required cover sheet information to:		
Commiss Public burden reporting for this sample cover sheet is estimated to average about data needed, and completing and reviewing the sample cover sheet. Send commet Systems, PK2-1000C, Washington, DC, 20231, and to the Office of Management a	nts regarding this burden estimate to the H S	Patent and Trademark Office Office of Information

EMC-12-271

PATENT/Joint Assignment Attorney Docket No.: EMC-12-273

ASSIGNMENT

WHEREAS, we, Eyal Kolman, Alon Kaufman and Yael Villa 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 ACTIVE LEARNING-BASED FRAUD DETECTION IN ADAPTIVE AUTHENTICATION SYSTEMS, the specification of which:

[]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X]	was filed on June 29, 2012 as U.S. Application No. 13/538,120;
[]	was patented under U.S. Patent Noon

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,

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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 6/8/2012	Eyal Kolman
On this day of day of known to be the individual who of the same.	25+, 20 12, before me personally came Eyal Kolman, to me executed the foregoing instrument, and acknowledged execution
Witness 1: 6.07.2012 Date	Alex taslavsrf Name Signature
Witness 2:	Their Muiji Name
6.09.2012 Date	Signature

28/8/12	
Date	Yael Villa
On this day of, 20, to be the individual who executed the foreg same.	, before me personally came Yael Villa, to me known soing instrument, and acknowledged execution of the
Witness 1: 28/8/2012 Date	Efrat Egozi-Levi Name Signature
Witness 2: 28 ? Lol L Date	Boaz Telem Name Signature

28/8/12 Date	Alon Kaufman
On this day of, 20 known to be the individual who executed the of the same.	, before me personally came Alon Kaufman, to me le foregoing instrument, and acknowledged execution
Witness 1: 28/8/2012 Date	Efrat Egozi-Levi Name Signature
Witness 2: $\frac{28/8/2012}{Date}$	Name Signature