501761124 12/19/2011

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kevin Bowers	12/01/2001
Tamara S. Denning	12/15/2011
Ari Juels	12/02/2011

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:	13249980

CORRESPONDENCE DATA

 Fax Number:
 (203)255-6570

 Phone:
 203 255 6560

 Email:
 car@rml-law.com

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

Address Line 1: 1300 Post Road Address Line 2: Suite 205

Address Line 4: Fairfield, CONNECTICUT 06824

ATTORNEY DOCKET NUMBER:	EMC-10-293
NAME OF SUBMITTER:	Kevin M. Mason

Total Attachments: 5

PATENT REEL: 027410 FRAME: 0863 DP \$40,00 1324

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> PATENT REEL: 027410 FRAME: 0864

FORM PTO-1595

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

(Rev.6-93) PAIENTS	Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks	Please record the attached original documents or copy thereof.	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)	
Kevin Bowers, Tamara S. Denning, Ari Juels	purely (less)	
Additional name(s) of conveying party(ies)	Name: EMC Corporation	
attached? Yes X No	T.4. 1.4.11	
Yes X No	Internal Address:	
3. Nature of conveyance:	Street Address: 176 South Street	
X Assignment _ Merger		
_ Security Agreement _ Change of Name _ Other	City: Hopkinton State: MA ZIP: 01748	
Emand's D.A. D. L. 4 2044	Additional name(s) & address(es) attached? _ Yes X No	
Execution Date: December 1, 2011, December 15, 2011, December 2, 2011		
4. Application number(s) or patent number(s):		
If this document is being filed together with a new a	pplication, the execution date of the application is:	
A. Patent Application No.(s) 13/249,980 Filed Septem	ber 30, 2011 B. Patent No.(s)	
Additional numbers attached? _ Yes X No		
5. Name and address of party to whom	6. Total number of applications and patents	
correspondence concerning document should be	involved: 1	
mailed:	7. Total Fee (37 CFR 3.41) \$ 40.00	
Name: Kevin M. Mason Internal Address: Ryan, Mason & Lewis, LLP	Enclosed	
Street Address: 1300 Post Road, Suite 205	X Authorized to be charged to deposit account	
City: Fairfield State: CT ZIP: 06824	8. Deposit account number 50-0762	
DO NOT USE THIS SPACE	o. Deposit account number 30-0/02	
9. Statement and signature.		
true copy of the original document.	formation is true and correct and any attached copy is a	
	A i	
Kevin M. Mason	December 19, 2011	
Kevin M. Mason Reg. No. 36,597 Signature	re Date	
Total number of pages including cover s Do not detach this portion	heet, attachments, and document:	
Mail documents to be recorded with required cover sheet information to:		
Commissioner of Patents and Trademarks Box Assignments		
Washington, DC 20231 Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, DC, 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, DC 20503.		

EMC-10-293

PATENT/Joint Assignment Attorney Docket No.: EMC-10-293

ASSIGNMENT

WHEREAS, we, Kevin Bowers, Tamara Denning and Ari Juels, 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 AUTHENTICATING A USER BASED ON IMPLICIT USER MEMORY, 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 September 30, 2011 as U.S. Application No. 13/249,980;
[]	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

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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: 12/1/2011	Kenin D. Bowers
	Inventor's Signature
Print full name of first inventor:	Kevin Bowers
Residence:	Melrose, Massachusetts
Citizenship:	United States of America
Mailing Address:	249 Tremont Street
	Melrose, Massachusetts 02176
STATE/COMMONWEALTH OF COUNTY OF	BARCHUSELLS HALLSEX
employee identification card; \(\sqrt{driver's limits} \)	the foregoing Assignment and acknowledged that
	Notary Public
DEANNA M. GOODWIN Notary Public Commonwealth of Massachusetts My Commission Expires October 24, 2014	Print Name: Deanna M. Goodwin My Commission expired 24 14

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Date: 12/15/11	Tamara of Denning
	Inventor's Signature
Print full name of second inventor:	Tamara S. Denning
Residence:	Seattle, Washington
Citizenship:	United States of America
Mailing Address:	2907 NE 52 nd Street #102
-	Seattle, Washington 98105
STATE/COMMONWEALTH OF COUNTY OF	Washington King J
employee identification card; X driv the person whose name is subscribed to	to me through satisfactory evidence of identification [X]
KADEN OF WASHINGTON OF WASHING	Notary Public Print Name: M.A. Kadenko My Commission expires 01/23/16

* / *****

PATENT REEL: 027410 FRAME: 0868

RECORDED: 12/19/2011 REEL: 02/410 FRAME: 0869