

PATENT ASSIGNMENT

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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>ALMA DIMNAKU</td> <td>08/30/2013</td> </tr> <tr> <td>MALAK ALSHAWABKEH</td> <td>09/05/2013</td> </tr> <tr> <td>ADNAN SAHIN</td> <td>09/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	ALMA DIMNAKU	08/30/2013	MALAK ALSHAWABKEH	09/05/2013	ADNAN SAHIN	09/03/2013		
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<table border="1"> <tr> <td>Name:</td> <td>EMC CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>176 SOUTH STREET</td> </tr> <tr> <td>City:</td> <td>HOPKINTON</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01748</td> </tr> </table>		Name:	EMC CORPORATION	Street Address:	176 SOUTH STREET	City:	HOPKINTON	State/Country:	MASSACHUSETTS	Postal Code:	01748
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CORRESPONDENCE DATA											
Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 508 898 8601 Email: aes@westboro-ip.com Correspondent Name: MUIRHEAD AND SATURNELLI, LLC Address Line 1: 200 FRIBERG PARKWAY, SUITE 1001 Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581											
ATTORNEY DOCKET NUMBER:	EMS-505US										
NAME OF SUBMITTER:	ANNE E. SATURNELLI										
Signature:	/Anne E. Saturnelli/										
Date:	10/04/2013										

CH \$40.00 13870262

Total Attachments: 6

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ASSIGNMENT

WHEREAS, we, Sean C. DOLAN, Dana NAAMAD, Alma DIMNAKU, Malak ALSHAWABKEH and Adnan SAHIN 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 **IDENTIFYING GROUPS OF SIMILAR DATA PORTIONS**, 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 April 25, 2013 as U.S. Application No. 13/870,262;
- ☐ 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.

AND, we hereby authorize attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis () the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

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:

Sean C. DOLAN

Residence:

29 Darlene Drive
Southborough, MA 01772

Citizenship:

U.S.A.

Mailing Address:

Same

STATE OF MASSACHUSETTS

COUNTY OF _____

On this ____ day of _____, 2013, then personally appeared before me the above-named Sean C. DOLAN 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:

Dana NAAMAD

Residence:

84 Beals Street #2
Brookline, MA 02446

Citizenship:

U.S.A.

Mailing Address:

Same

STATE OF MASSACHUSETTS

COUNTY OF _____

On this ____ day of _____, 2013, then personally appeared before me the above-named Dana NAAMAD 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: 8-30-2013

Alma Dimnaku

Inventor's Signature

Print full name of third inventor:

Alma DIMNAKU

Residence:

57 Pine Plain Road
Wellesley, MA 02481

Citizenship:

U.S. A.

Mailing Address:

Same

STATE OF MASSACHUSETTS

COUNTY OF Middlesex

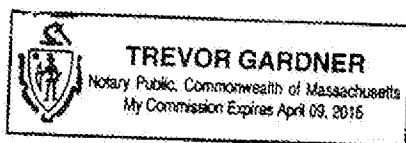
On this 30th day of August, 2013, then personally appeared before me the above-named **Alma DIMNAKU** known to me through satisfactory evidence of identification ☐ employee identification card; ☒ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Trevor Gardner

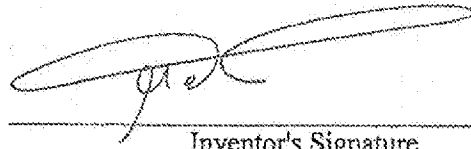
Notary Public

Print Name: Trevor Gardner

My Commission expires: April 9, 2015



Date: Sept 5, 13

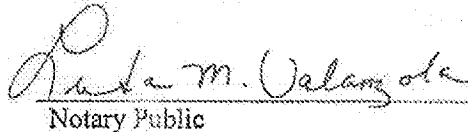

Inventor's Signature

Print full name of fourth inventor:
Residence:
Citizenship:
Mailing Address:

Malak ALSHAWABKEH
127 King Street, Apt. 303
Franklin, MA 02038
Jordan
Same

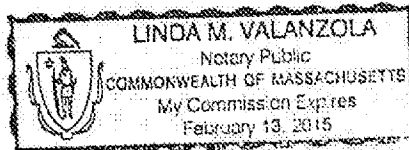
STATE OF MASSACHUSETTS
COUNTY OF Middlesex

On this 5 day of September, 2013, then personally appeared before me the above-named
Malak ALSHAWABKEH 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: Linda N. Valanzola

My Commission expires:



Date: Sept 3, 2013

Adnan Sahin
Inventor's Signature

Print full name of fifth inventor:

Adnan SAHIN

Residence:

140 Pine Grove St
Needham, MA 02404

Citizenship:

U.S.A.

Mailing Address:

Same

STATE OF MASSACHUSETTS

COUNTY OF Middlesex

On this 3 day of Sept, 2013, then personally appeared before me the above-named Adnan SAHIN known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☒ (other) known to me 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 E. Buck
Notary Public

Print Name: Nancy E. Buck

My Commission expires: August 11, 2017