

PATENT ASSIGNMENT

Electronic Version v1.1  
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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>Stephen Todd</td><td>05/07/2012</td></tr><tr><td>Ivan Gumenyuk</td><td>05/13/2012</td></tr><tr><td>Pavel B. Egorov</td><td>05/15/2012</td></tr><tr><td>Inga Petryaevskaya</td><td>05/12/2012</td></tr><tr><td>Padraig Murphy</td><td>05/14/2012</td></tr><tr><td>Shareef Muhammad Mahmoud Bassiouny</td><td>05/16/2012</td></tr><tr><td>Karthikeyan Srinivasan</td><td>05/26/2012</td></tr><tr><td>Yael Eliana Villa</td><td>05/13/2012</td></tr><tr><td>Jidong Chen</td><td>05/08/2012</td></tr><tr><td>Qiyen Chen</td><td>05/14/2012</td></tr><tr><td>Sudhir Vijendra</td><td>05/08/2012</td></tr><tr><td>Calvin Donahue Smith</td><td>05/08/2012</td></tr></tbody></table>		Name	Execution Date	Stephen Todd	05/07/2012	Ivan Gumenyuk	05/13/2012	Pavel B. Egorov	05/15/2012	Inga Petryaevskaya	05/12/2012	Padraig Murphy	05/14/2012	Shareef Muhammad Mahmoud Bassiouny	05/16/2012	Karthikeyan Srinivasan	05/26/2012	Yael Eliana Villa	05/13/2012	Jidong Chen	05/08/2012	Qiyen Chen	05/14/2012	Sudhir Vijendra	05/08/2012	Calvin Donahue Smith	05/08/2012
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RECEIVING PARTY DATA																											
<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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PROPERTY NUMBERS Total: 1																											
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Application Number:	13338864																										
CORRESPONDENCE DATA																											
Fax Number:	(516)759-9512																										
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Email:	nyoffice@rml-law.com																										
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent																											

OP \$40.00 13338864

501937397

PATENT  
REEL: 028286 FRAME: 0610

*via US Mail.*

Correspondent Name: William E. Lewis  
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-11-663

NAME OF SUBMITTER:

William E. Lewis

Total Attachments: 13

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ASSIGNMENT

WHEREAS, we, Stephen Todd, Ivan Gumenyuk, Pavel B. Egorov, Inga Petryaevskaya, Padraig D. Murphy, Shareef Muhammad Mahmoud Bassiouny, ~~Karthik~~ Srinivasan, Yael Eliana Villa, Jidong Chen, Qiyang Chen, Sudhir Vijendra and Calvin Donahue Smith, 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 **KNOWLEDGE MANAGEMENT ACROSS DISTRIBUTED ENTITY**, the specification of which:

KARTHIKEYAN  
26/05/12  
26/may/12

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on December 28, 2011 as U.S. Application No. 13/338,864;
- ☐ 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:

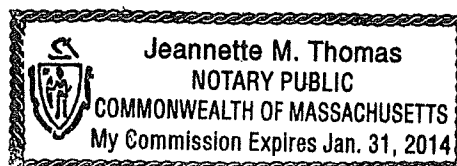
Date: May 7 2012 Steve Todd  
Inventor's Signature

Print full name of first inventor: Stephen Todd  
Residence: Shrewsbury, Massachusetts  
Citizenship: United States of America  
Mailing Address: 36 Thomas Farm Circle  
Shrewsbury, Massachusetts 01545


STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 7<sup>th</sup> day of May, 2012, then personally appeared before me the above-named Stephen Todd known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) personally known 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.

Jeannette M. Thomas  
Notary Public  
Print Name: Jeannette M. Thomas  
My Commission expires 1/31/2014



Date: 13-May-2012



Inventor's Signature

Print full name of second inventor:

Ivan Gumenyuk

Residence:

Saint-Petersburg, Russia

Citizenship:

Russia

Mailing Address:

198261, ul. Stojkosti, 26-3, Apt. 58

Saint-Petersburg, Russia

14-MAY-2012  
Date

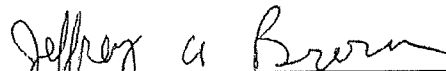


Witness #1 Signature

YURI STOTSKI

Witness #1 Print Name

14-May-2012  
Date



Witness #2 Signature

Jeffrey A. Brown

Witness #2 Print Name

Date:

15 May 2012



Inventor's Signature

Print full name of third inventor:

Pavel B. Egorov

Residence:

St-Petersburg, Russia

Citizenship:

Russia

Mailing Address:

Asafieva Street 5-1-158

St-Petersburg, 194356, Russia

Date

May 15, 2012

Witness #1 Signature

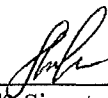


Viacheslav Nesterov

Witness #1 Print Name

Date

Witness #2 Signature



Tatiana Loseva

Witness #2 Print Name

Date: 12 May, 2012

  
Inventor's Signature

Print full name of fourth inventor:

Inga Petryaevskaya

Residence:

Saint-Petersburg, Russia

Citizenship:


Russia

Mailing Address:

Khasankaya Street 2, Building 1, Apt. 161

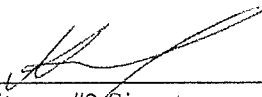
Saint-Petersburg 195426 Russia

14 May, 2012  
Date

  
Witness #1 Signature

Viacheslav Nesterov  
Witness #1 Print Name

12 May, 2012  
Date

  
Witness #2 Signature

ARTEM Arieu  
Witness #2 Print Name

Date: May 14, 2012

Padraig Murphy  
Inventor's Signature

Print full name of fifth inventor:

Padraig D. Murphy

Residence:

Glanmire, Ireland

Citizenship:

Ireland

Mailing Address:

Gleann Rua, Sarsfield's Court, County Cork  
Glanmire, Ireland

May 14, 2012  
Date

Patricia Leahy  
Witness #1 Signature

PATRICK LEAHY  
Witness #1 Print Name

May 14, 2012  
Date

Stephen O'Brien  
Witness #2 Signature

Stephen O'Brien  
Witness #2 Print Name



Date: 16 May 2012

Shareef Bassiouny  
Inventor's Signature

Print full name of sixth inventor:

Shareef Muhammad Mahmoud Bassiouny

Residence:

Giza, Egypt

Citizenship:

Egypt

Mailing Address:

Flat 310, Building No. 1 El Aalam City

Behind Baloon Theatre, Agouza

Giza, Egypt

16 May 2012  
Date

Fady Eskandar Lamei  
Witness #1 Signature

Fady Eskandar Lamei  
Witness #1 Print Name

16 May 2012  
Date

[Signature]  
Witness #2 Signature

Amira Youssef  
Witness #2 Print Name

Date: 26 MAY 2012



Inventor's Signature

Print full name of seventh inventor:

Residence:

Citizenship:

Mailing Address:

KARTHIKE YAN

Karthik Srinivasan

Hopkinton, Massachusetts

India

176 South Street

Hopkinton, Massachusetts 01748


BANGALORE, INDIA

R 306, PURVA FOUNTAIN SQUARE APT

VARTHUR ROAD

MARATHA HALI, BANGALORE-560037

26-May-2012  
Date

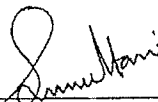


Witness #1 Signature

SHAIENDRA RAVI

Witness #1 Print Name

26-May-2012  
Date



Witness #2 Signature

SURAJ MULTANI

Witness #2 Print Name

Date: 13/5/2012

[Signature]  
Inventor's Signature

Print full name of eighth inventor:

Yael Eliana Villa

Residence:

Tel Aviv, Israel

Citizenship:

Germany

Mailing Address:

Romema 36/1

Tel Aviv, Israel

13/5/12  
Date

[Signature]  
Witness #1 Signature

ALON KAUFMAN

Witness #1 Print Name

13/5/12  
Date

[Signature]  
Witness #2 Signature

Guy Eliana  
Witness #2 Print Name

Date: May 8, 2012

Jidong Chen  
Inventor's Signature

Print full name of ninth inventor: Jidong Chen  
Residence: Beijing, China  
Citizenship: China  
Mailing Address: 8/F, Block D, SP Tower, Tsinghua Science Park  
Zhongguancun Dong Road 1, Haidian District  
Beijing, China

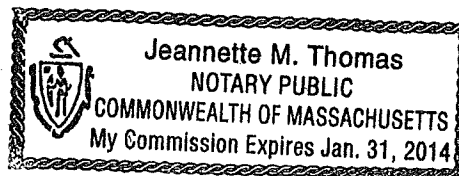
STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 8<sup>th</sup> day of May, 2012, then personally appeared before me the above-named Jidong Chen known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) personally known 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.

Jeannette M. Thomas  
Notary Public

Print Name: Jeannette M. Thomas

My Commission expires 1 / 31 / 2014



PATENT/Joint Assignment  
Attorney Docket No.: EMC-11-663

Date: 2012.5.14

陈奇  
Inventor's Signature

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

Qiyang Chen  
Shanghai, China  
China  
Room 102, Guilding #26, ZaoZhuang Road 399  
Shanghai 200136 China

2012.5.14  
Date

郭峰

Witness #1 Signature

Tony Guo

Witness #1 Print Name

2012.5.14  
Date

万林涛

Witness #2 Signature

Lintao Wan

Witness #2 Print Name

Date: 5/8/12

Sudhir Vijendra  
Inventor's Signature

Print full name of eleventh inventor: Sudhir Vijendra  
Residence: Cambridge, Massachusetts  
Citizenship: India  
Mailing Address: 30 Cambridgepark Drive, Apt. 2111  
Cambridge, Massachusetts 02140

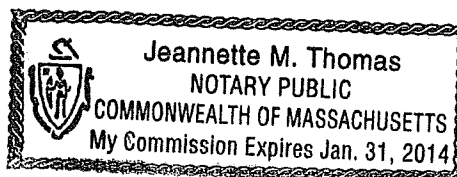
STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 8<sup>th</sup> day of May, 2012, then personally appeared before me the above-named Sudhir Vijendra known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) personally known 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.

Jeannette M. Thomas  
Notary Public

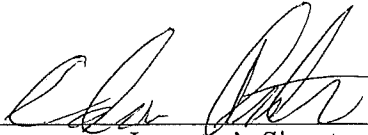
Print Name: Jeannette M. Thomas

My Commission expires 1 / 31 / 2014



Date:

5/8/12

  
Inventor's Signature

Print full name of twelfth inventor:

Calvin Donahue Smith

Residence:

Brighton, Massachusetts

Citizenship:

United States of America

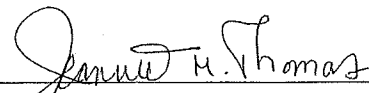
Mailing Address:

61 Bigelow Street

Brighton, Massachusetts 02135

STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex

On this 8<sup>th</sup> day of May, 2012, then personally appeared before me the above-named Calvin Donahue Smith known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) personally known 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: Jeannette M. Thomas  
My Commission expires 1/31/2014

