

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALINA M. OPREA	03/06/2015
TING-FANG YEN	02/20/2015
ARI JUELS	07/06/2015
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State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14554492
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NAME OF SUBMITTER:	JOSEPH B. RYAN
SIGNATURE:	/joseph b. ryan/
DATE SIGNED:	07/10/2015
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Alina M. Oprea, Ting-Fang Yen, 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 **DETERMINING RISK OF MALWARE INFECTION IN ENTERPRISE HOSTS**, 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 November 26, 2014 as U.S. Application No. 14/554,492;

☐ 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: 03/06/2015

Alina M. Oprea
Inventor's Signature

Print full name of first inventor: Alina M. Oprea
Residence: Arlington, Massachusetts
Citizenship: Romania
Mailing Address: 104 Cutter Hill Road
Arlington, Massachusetts 02474

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 6 day of March, 2015, then personally appeared before me the above-named Alina M. Oprea 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.

Alaa Abdulwahid
Notary Public

Print Name: Alaa Abdulwahid

My Commission expires 03/12/2021



ALAA ABDULWAHID
Notary Public
Commonwealth of Massachusetts
My Commission Expires March 12, 2021

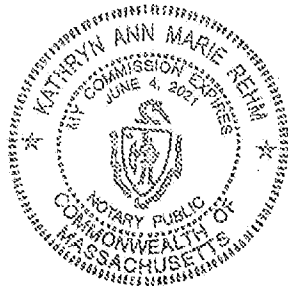
Date: 2/20/2015

[Signature]
Inventor's Signature

Print full name of second inventor: Ting-Fang Yen
Residence: Waltham, Massachusetts
Citizenship: Taiwan
Mailing Address: 6006 Stearns Hill Road
Waltham, Massachusetts 02451

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 20th day of Feb., 2015, then personally appeared before me the above-named Ting-Fang Yen 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.



Kathryn Rehm
Notary Public

Print Name: Kathryn Rehm
My Commission expires 6/4/2021

Date:

6 July 2015

Ari Juels
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

MA

COUNTY OF

NORFOLK

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.

Suleyka Rivera
Notary Public

Print Name:

Suleyka Rivera

My Commission expires 12 / 03 / 2016

