

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4636436

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ASHAR AZIZ	03/22/2017
OSMAN ABDOUL ISMAEL	09/07/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FIREEYE, INC.
<b>Street Address:</b>	1440 MCCARTHY BLVD.
<b>City:</b>	MILPITAS
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95035
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15633226
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)951-3927
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	617-951-2500
<b>Email:</b>	docket@c-m.com
<b>Correspondent Name:</b>	CESARI AND MCKENN, LLP
<b>Address Line 1:</b>	88 BLACK FALCON AVENUE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02128
<b>ATTORNEY DOCKET NUMBER:</b>	112070-0028U
<b>NAME OF SUBMITTER:</b>	ANTHONY C. TOPPER
<b>SIGNATURE:</b>	/Anthony C. Topper/
<b>DATE SIGNED:</b>	10/11/2017
<b>Total Attachments: 4</b>	
source=2B24887#page1.tif	
source=2B24887#page2.tif	
source=2B24887#page3.tif	
source=2B24887#page4.tif	

PATENTS  
112070-0028U  
P01-1491.02

### ASSIGNMENT

Whereas We, Ashar Aziz, whose residence address is Coral Gables, FL, and Osman Abdoul Ismael, whose residence address is Palo Alto, CA, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled MALWARE DETECTION VERIFICATION AND ENHANCEMENT BY COORDINATING ENDPOINT AND MALWARE DETECTION SYSTEMS, identified by Cesari and McKenna File No. 112070-0028U / P01-1491.02, which application was enclosed on even date herewith; and a provisional patent application entitled MALWARE DETECTION VERIFICATION AND ENHANCEMENT BY COORDINATING ENDPOINT AND MALWARE DETECTION SYSTEMS identified by Cesari and McKenna File No. 112070-0028R / P01-1491, the application of which was filed on June 30, 2016, and accorded Serial No. 62/357,119; and

Whereas FireEye, Inc., whose address is 1440 McCarthy Blvd., Milpitas, CA, 95035, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

Now, Therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we, hereby, without reservation:

1. Assign, transfer and convey to Assignee our entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;
4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

PATENTS  
112070-0028U  
P01-1491.02

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment on the dates indicated next to our names.

March 22, 2017

Date

DocuSigned by:

Ashar Aziz

C13D028D389F4E9...

Ashar Aziz, Inventor

Date

Osman Abdoul Ismael, Inventor

### ASSIGNMENT

Whereas We, Ashar Aziz, whose residence address is Coral Gables, FL, and Osman Abdoul Ismael, whose residence address is Palo Alto, CA, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled MALWARE DETECTION VERIFICATION AND ENHANCEMENT BY COORDINATING ENDPOINT AND MALWARE DETECTION SYSTEMS, identified by Cesari and McKenna File No. 112070-0028U / P01-1491.02, which application was enclosed on even date herewith; and a provisional patent application entitled MALWARE DETECTION VERIFICATION AND ENHANCEMENT BY COORDINATING ENDPOINT AND MALWARE DETECTION SYSTEMS identified by Cesari and McKenna File No. 112070-0028R / P01-1491, the application of which was filed on June 30, 2016, and accorded Serial No. 62/357,119; and

Whereas FireEye, Inc., whose address is 1440 McCarthy Blvd., Milpitas, CA, 95035, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

Now, Therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we, hereby, without reservation:

1. Assign, transfer and convey to Assignee our entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

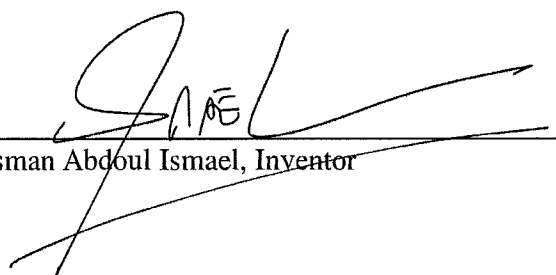
5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment on the dates indicated next to our names.

\_\_\_\_\_  
Date

09/07/2017  
Date

\_\_\_\_\_  
Ashar Aziz, Inventor

  
\_\_\_\_\_  
Osman Abdoul Ismael, Inventor