

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4939300

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW JOHN BLOCK	04/18/2018
ADAM SHEESLEY	06/14/2016
JON MATTHEW WELBORN	12/08/2017
JAMES ROBERT BORECKY	12/08/2017
JENNIFER A. HOLTON	12/12/2017
DOUGLAS S. RODGERS	03/29/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WELLS FARGO BANK, N.A.
<b>Street Address:</b>	420 MONTGOMERY STREET
<b>City:</b>	SAN FRANCISCO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94104
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15153067
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(651)735-1102
<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>	651 735 1100
<b>Email:</b>	pairedocketing@ssiplaw.com
<b>Correspondent Name:</b>	SHUMAKER & SIEFFERT, P. A./WELLS FARGO
<b>Address Line 1:</b>	1625 RADIO DRIVE, SUITE 100
<b>Address Line 4:</b>	WOODBURY, MINNESOTA 55125
<b>ATTORNEY DOCKET NUMBER:</b>	1234-023US01
<b>NAME OF SUBMITTER:</b>	JONATHON ACHEY
<b>SIGNATURE:</b>	/jonathon ahey/
<b>DATE SIGNED:</b>	04/30/2018
<b>Total Attachments: 18</b>	

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ASSIGNMENT

Whereas I/we, the below named inventor(s), have made an invention in

**ROGUE ENDPOINT DETECTION**

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Whereas, Wells Fargo Bank, N.A., a national banking association having a principal place of business at 420 Montgomery Street, San Francisco, California 94104, U.S.A., hereinafter referred to as "Assignee," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to said invention, including all patent applications therefor that may have been filed or may be filed hereafter for said invention, including but not limited to the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said application(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may have granted or may be granted hereafter, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns 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 and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by me if this assignment had not been made; together with all claims for damages by reason of past infringement or for provisional rights that have or may have accrued prior to the date of assignment to said Assignee, or may accrue hereafter, and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Assignee, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;


AND, for the consideration aforesaid, we hereby individually covenant and agree to communicate to Assignee, its successors and assigns, or their representative or agents, all facts and information known or available to us respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; and to testify in person or by affidavit as required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto;

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I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial [if any]): <b>Matthew John</b>	Family Name or Surname (last name): <b>Block</b>
Inventor's Signature:  <small>Matthew John Block (Page 18, 2018)</small>	Date: <b>Apr 18, 2018</b>

Given Name (first and middle initial [if any]): <b>Adam</b>	Family Name or Surname (last name): <b>Sheesley</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Jon Matthew</b>	Family Name or Surname (last name): <b>Welborn</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>James Robert</b>	Family Name or Surname (last name): <b>Borecky</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Jennifer A.</b>	Family Name or Surname (last name): <b>Holton</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Douglas S.</b>	Family Name or Surname (last name): <b>Rodgers</b>
Inventor's Signature:	Date:

**Signature:**

**Email:** chad.bement@wellsfargo.com

**Signature:**

**Email:** shukla@ssiplaw.com

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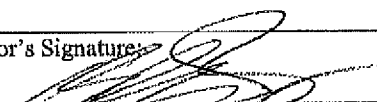
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Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Adam</b>	Family Name or Surname (last name): <b>Sheesley</b>
Inventor's Signature: 	Date: <b>JUNE 14<sup>th</sup>, 2016</b>

Given Name (first and middle initial [if any]): <b>Jon Matthew</b>	Family Name or Surname (last name): <b>Welborn</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>James Robert</b>	Family Name or Surname (last name): <b>Borecky</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Jennifer A.</b>	Family Name or Surname (last name): <b>Holton</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Douglas S.</b>	Family Name or Surname (last name): <b>Rodgers</b>
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Inventor's Signature: <i>Jon Welborn</i>	Date: 12/8/2017

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NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to said invention, including all patent applications therefor that may have been filed or may be filed hereafter for said invention, including but not limited to the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said application(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may have granted or may be granted hereafter, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns 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 and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by me if this assignment had not been made; together with all claims for damages by reason of past infringement or for provisional rights that have or may have accrued prior to the date of assignment to said Assignee, or may accrue hereafter, and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Assignee, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to communicate to Assignee, its successors and assigns, or their representative or agents, all facts and information known or available to us respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; and to testify in person or by affidavit as required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Assignee, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Assignee, its successors or assigns, but at Assignee's expense.

I/We hereby authorize the Assignee, its successors and assigns, to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Assignee, as the assignee of the entire right, title, and interest therein.

I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial [if any]): <b>Matthew John</b>	Family Name or Surname (last name): <b>Block</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Adam</b>	Family Name or Surname (last name): <b>Sheesley</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Jon Matthew</b>	Family Name or Surname (last name): <b>Welborn</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>James Robert</b>	Family Name or Surname (last name): <b>Borecky</b>
Inventor's Signature:	Date:



Given Name (first and middle initial [if any]): <b>Jennifer A.</b>	Family Name or Surname (last name): <b>Holton</b>
Inventor's Signature: <i>Jennifer A. Holton</i>	Date: <i>12/12/17</i>

Given Name (first and middle initial [if any]): <b>Douglas S.</b>	Family Name or Surname (last name): <b>Rodgers</b>
Inventor's Signature:	Date:

ASSIGNMENT

Whereas I/we, the below named inventor(s), have made an invention in

<b>ROGUE ENDPOINT DETECTION</b>
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- for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
- for which an application for a United States Patent identified as U.S. Patent Application No. 15/153,067 was filed on **May 12, 2016**;
- for which an application for a U.S. Provisional Application No. \_\_\_\_\_; was filed on \_\_\_\_\_;
- for which above application claims priority to U.S. Provisional Patent Application No(s) \_\_\_\_\_, filed on \_\_\_\_\_;
- which application is identified as PCT International Patent Application No. \_\_\_\_\_; filed \_\_\_\_\_;

Whereas, Wells Fargo Bank, N.A., a national banking association having a principal place of business at 420 Montgomery Street, San Francisco, California 94104, U.S.A., hereinafter referred to as "Assignee," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to said invention, including all patent applications therefor that may have been filed or may be filed hereafter for said invention, including but not limited to the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said application(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may have granted or may be granted hereafter, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns 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 and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by me if this assignment had not been made; together with all claims for damages by reason of past infringement or for provisional rights that have or may have accrued prior to the date of assignment to said Assignee, or may accrue hereafter, and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Assignee, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to communicate to Assignee, its successors and assigns, or their representative or agents, all facts and information known or available to us respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; and to testify in person or by affidavit as required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Assignee, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Assignee, its successors or assigns, but at Assignee's expense.

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I/we have signed my/our name(s) on the day and year set forth below.


Given Name (first and middle initial [if any]): <b>Matthew John</b>	Family Name or Surname (last name): <b>Block</b>
Inventor's Signature:	Date:

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Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Jon Matthew</b>	Family Name or Surname (last name): <b>Welborn</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>James Robert</b>	Family Name or Surname (last name): <b>Borecky</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Jennifer A.</b>	Family Name or Surname (last name): <b>Holton</b>
Inventor's Signature:	Date:

Given Name (first and middle initial [if any]): <b>Douglas S.</b>	Family Name or Surname (last name): <b>Rodgers</b>
Inventor's Signature: 	Date: <b>3/27/2018</b>