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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4738941

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ANUP GHOSH | 10/23/2009 |
| YIH HUANG | 10/26/2009 |
| JIANG WANG | 10/23/2009 |
| ANGELOS STAVROU | 10/22/2009 |
| RECEIVING PARTY DATA | |
| Name: | GEORGE MASON UNIVERSITY |
| Street Address: | 4400 UNIVERSITY DRIVE |
| City: | FAIRFAX |
| State/Country: | VIRGINIA |
| Postal Code: | 22030 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15841913 |
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| ATTORNEY DOCKET NUMBER: | INVI-003/04US 314067-2051 |
| NAME OF SUBMITTER: | DAVID W. HOPKINS |
| SIGNATURE: | /David W. Hopkins/ |
| DATE SIGNED: | 12/18/2017 |
| Total Attachments: 4 | |
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| source=Inventors to GMU#page2.tif | |

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ASN1.08.040

Docket Number: GMU.08.040U

ASSIGNMENT OF INVENTION

WHEREAS, Anup Ghosh, hereinafter called the "Assignor," has invented a new and useful invention entitled, "Web Canaries: a Large-scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser" for which the United States Provisional Patent Application entitled, "Large-Scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser," Provisional Application number 61/096,591 was filed September 12, 2008, and for which the United States Letters Patent Application entitled, "Distributed Sensor for Detecting Malicious Software," application number 12/558,841 was filed September 14, 2009.

WHEREAS, George Mason University, of Fairfax, Virginia, hereinafter called the "Assignee", whose mailing address is: 4400 University Drive, Fairfax, VA 22030, is desirous of acquiring the entire right, title and interest in and to said invention, the applications above identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and in, to and under any Letters Patent which may be granted thereof, including all reissues, reexaminations, and extensions thereof.

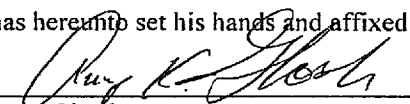
NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Patent and Patent therefore, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.


IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 10/23/09


Anup Ghosh

WITNESSED:

Date: 10/23/09


Patricia Curcane

Date: 10/23/09

ASN2.08.040

Docket Number: GMU.08.040U

ASSIGNMENT OF INVENTION

WHEREAS, Yih Huang, hereinafter called the "Assignor," has invented a new and useful invention entitled, "Web Canaries: a Large-scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser" for which the United States Provisional Patent Application entitled, "Large-Scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser," Provisional Application number 61/096,591 was filed September 12, 2008, and for which the United States Letters Patent Application entitled, "Distributed Sensor for Detecting Malicious Software," application number 12/558,841 was filed September 14, 2009.

WHEREAS, George Mason University, of Fairfax, Virginia, hereinafter called the "Assignee", whose mailing address is: 4400 University Drive, Fairfax, VA 22030, is desirous of acquiring the entire right, title and interest in and to said invention, the applications above identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and in, to and under any Letters Patent which may be granted thereof, including all reissues, reexaminations, and extensions thereof.

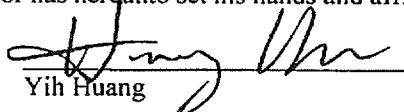
NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Patent and Patent therefore, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.

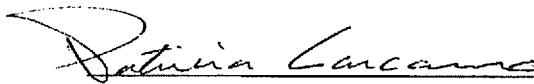
IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 10/26/09

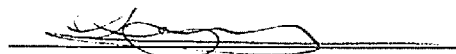

Yih Huang

WITNESSED:

Date: 10/26/09



Date: 10/26/09



ASN4.08.040

Docket Number: GMU.08.040U

ASSIGNMENT OF INVENTION

WHEREAS, **Jiang Wang**, hereinafter called the "Assignor," has invented a new and useful invention entitled, "**Web Canaries: a Large-scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser**" for which the United States Provisional Patent Application entitled, "**Large-Scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser**," Provisional Application number **61/096,591** was filed **September 12, 2008**, and for which the United States Letters Patent Application entitled, "**Distributed Sensor for Detecting Malicious Software**," application number **12/558,841** was filed **September 14, 2009**.

WHEREAS, George Mason University, of Fairfax, Virginia, hereinafter called the "Assignee", whose mailing address is: 4400 University Drive, Fairfax, VA 22030, is desirous of acquiring the entire right, title and interest in and to said invention, the applications above identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and in, to and under any Letters Patent which may be granted thereof, including all reissues, reexaminations, and extensions thereof.

NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Patent and Patent therefore, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 10/23/2009

Jiang Wang
Jiang Wang

WITNESSED:

Date: 10/23/2009

Patricia L. ...

Date: 10/23/2009

[Signature]

ASN3.08.040

Docket Number: GMU.08.040U

ASSIGNMENT OF INVENTION

WHEREAS, **Angelos Stavrou**, hereinafter called the "Assignor," has invented a new and useful invention entitled, "**Web Canaries: a Large-scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser**" for which the United States Provisional Patent Application entitled, "**Large-Scale Distributed Sensor for Detecting Malicious Web Sites via a Virtualized Web Browser**," Provisional Application number **61/096,591** was filed **September 12, 2008**, and for which the United States Letters Patent Application entitled, "**Distributed Sensor for Detecting Malicious Software**," application number **12/558,841** was filed **September 14, 2009**.

WHEREAS, George Mason University, of Fairfax, Virginia, hereinafter called the "Assignee", whose mailing address is: 4400 University Drive, Fairfax, VA 22030, is desirous of acquiring the entire right, title and interest in and to said invention, the applications above identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and in, to and under any Letters Patent which may be granted thereof, including all reissues, reexaminations, and extensions thereof.

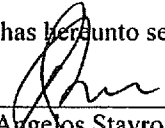
NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Patent and Patent therefore, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

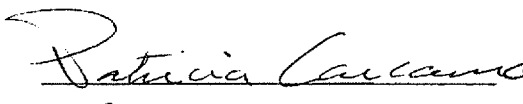
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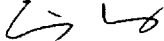


Angelos Stavrou

WITNESSED:

Date: 10/22/09





Date: 10/22/09