

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
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| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sushil Jajodia</td> <td>06/29/2010</td> </tr> <tr> <td>Steven E. Noel</td> <td>06/29/2010</td> </tr> <tr> <td>Eric B. Robertson</td> <td>06/24/2010</td> </tr> </tbody> </table> | | Name | Execution Date | Sushil Jajodia | 06/29/2010 | Steven E. Noel | 06/29/2010 | Eric B. Robertson | 06/24/2010 | | | | |
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| Sushil Jajodia | 06/29/2010 | | | | | | | | | | | | |
| Steven E. Noel | 06/29/2010 | | | | | | | | | | | | |
| Eric B. Robertson | 06/24/2010 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>George Mason University</td> </tr> <tr> <td>Street Address:</td> <td>4400 University Dr.</td> </tr> <tr> <td>Internal Address:</td> <td>MSN 5G5</td> </tr> <tr> <td>City:</td> <td>Fairfax</td> </tr> <tr> <td>State/Country:</td> <td>VIRGINIA</td> </tr> <tr> <td>Postal Code:</td> <td>22030</td> </tr> </table> | | Name: | George Mason University | Street Address: | 4400 University Dr. | Internal Address: | MSN 5G5 | City: | Fairfax | State/Country: | VIRGINIA | Postal Code: | 22030 |
| Name: | George Mason University | | | | | | | | | | | | |
| Street Address: | 4400 University Dr. | | | | | | | | | | | | |
| Internal Address: | MSN 5G5 | | | | | | | | | | | | |
| City: | Fairfax | | | | | | | | | | | | |
| State/Country: | VIRGINIA | | | | | | | | | | | | |
| Postal Code: | 22030 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 3 | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11371938</td> </tr> <tr> <td>Application Number:</td> <td>12758135</td> </tr> <tr> <td>Application Number:</td> <td>13466706</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 11371938 | Application Number: | 12758135 | Application Number: | 13466706 | | | | |
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| Application Number: | 11371938 | | | | | | | | | | | | |
| Application Number: | 12758135 | | | | | | | | | | | | |
| Application Number: | 13466706 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: 7039939710</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (703) 993-9628</p> <p>Email: cklenner@gmu.edu</p> <p>Correspondent Name: Carolyn Klenner</p> <p>Address Line 1: 4400 University Dr.</p> <p>Address Line 2: MSN 5G5</p> <p>Address Line 4: Fairfax, VIRGINIA 22030</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | GMU-05-016 | | | | | | | | | | | | |

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| NAME OF SUBMITTER: | Carolyn Klenner |
| Signature: | /Carolyn Klenner/ |
| Date: | 08/02/2013 |
| Total Attachments: 3 source=ASN1.05.016_Jajodia#page1.tif source=ASN2.05.016_Noel#page1.tif source=ASN3.05.016U2_Robertson#page1.tif | |

ASSIGNMENT OF INVENTION

WHEREAS, **Sushil Jajodia**, hereinafter called the "Assignor," has invented a new and useful invention entitled, "**Correlating Intrusion Events Using Attack Graph Distances**" for which the United States Provisional Patent Application entitled, "**Correlating Intrusion Events Using Attack Graph Distances**," Provisional Application number **60/659,897** was filed **March 10, 2005**; and for which the United States Letters Patent Application entitled, "**Intrusion Event Correlator**," application number **11/371,938** was filed on **March 10, 2006**.

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: 6/29/10

Sushil Jajodia
Sushil Jajodia

WITNESSED:

Date: 6/29/10

Dating Carcano
Stefano

Date: 6/29/10

PATENT

REEL: 030931 FRAME: 0567

ASSIGNMENT OF INVENTION

WHEREAS, Steven E. Noel, hereinafter called the "Assignor," has invented a new and useful invention entitled, "Correlating Intrusion Events Using Attack Graph Distances" for which the United States Provisional Patent Application entitled, "Correlating Intrusion Events Using Attack Graph Distances," Provisional Application number 60/659,897 was filed March 10, 2005; and for which the United States Letters Patent Application entitled, "Intrusion Event Correlator," application number 11/371,938 was filed on March 10, 2006.

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.

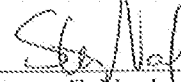
NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, 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.

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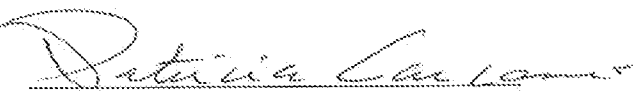
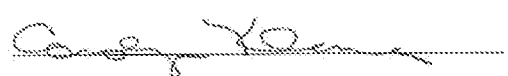
IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 6/29/10


Steven E. Noel

WITNESSED:

Date: 6/29/10

Date: 6/29/10

ASSIGNMENT OF INVENTION

WHEREAS, **Eric B. Robertson**, hereinafter called the "Assignor," has invented a new and useful invention entitled, "**Correlating Intrusion Events Using Attack Graph Distances**" for which the United States Provisional Patent Application entitled, "**Correlating Intrusion Events Using Attack Graph Distances**," Provisional Application number 60/659,897 was filed **March 10, 2005**; and for which the United States Letters Patent Application entitled, "**Intrusion Event Correlator**," application number 11/371,938 was filed on **March 10, 2006**; and for which the United States Letters Patent Application entitled, "**Intrusion Event Correlation System**," application number 12/758,135 was filed **April 12, 2010**.

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.

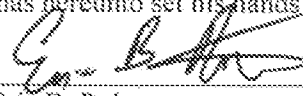
NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, 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: 6-24-2010


Eric B. Robertson

WITNESSED:

Date: 6/24/10



Date: _____

PATENT