

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Frank Apap</td> <td>08/02/2003</td> </tr> <tr> <td>Andrew Honig</td> <td>09/29/2003</td> </tr> <tr> <td>Shlomo Hershkop</td> <td>09/05/2003</td> </tr> <tr> <td>Eleazar Eskin</td> <td>09/11/2003</td> </tr> <tr> <td>Salvatore J. Stolfo</td> <td>08/18/2003</td> </tr> </tbody> </table>		Name	Execution Date	Frank Apap	08/02/2003	Andrew Honig	09/29/2003	Shlomo Hershkop	09/05/2003	Eleazar Eskin	09/11/2003	Salvatore J. Stolfo	08/18/2003
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>The Trustees of Columbia University in the City of New York</td> </tr> <tr> <td>Street Address:</td> <td>116th Street & Broadway</td> </tr> <tr> <td>City:</td> <td>New York</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10027</td> </tr> </table>		Name:	The Trustees of Columbia University in the City of New York	Street Address:	116th Street & Broadway	City:	New York	State/Country:	NEW YORK	Postal Code:	10027		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 2122592482 Phone: 212 408 2500 Email: lillian.garcia@bakerbotts.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Baker Botts LLP Address Line 1: 30 Rockefeller Plaza Address Line 2: 44th Floor Address Line 4: New York, NEW YORK 10112-4498</p>													
ATTORNEY DOCKET NUMBER:	070050.3591												
NAME OF SUBMITTER:	Lillian Garcia												

CH \$40.00 12154405

Total Attachments: 8

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PATENT

ASSIGNMENT

WHEREAS, WE, FRANK APAP, ANDREW HONIG, SHLOMO HERSHKOP, ELEAZAR ESKIN and SALVATORE J. STOLFO, citizens of the United States of America, whose post office addresses are 34 Heatherfield Road, Valley Stream, New York 11581; 13 Meadow Lane, East Windsor, New Jersey 08520; 742 Montgomery Street, Apartment #D2, Brooklyn, New York 11213; 935 Stanford Street, Santa Monica, California 90403; and 80 Kenilworth Road, Ridgewood, New Jersey 07450, respectively, have made an invention entitled "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY MONITORING WINDOWS REGISTRY ACCESSES" as set forth and described in U.S. Patent Application Serial No. 10/352,343 for Letters Patent filed January 27, 2003; and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "COLUMBIA"), having its principal place of business at 116th Street and Broadway, New York, New York 10027, is desirous of acquiring the whole right, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said FRANK APAP, ANDREW HONIG, SHLOMO HERSHKOP, ELEAZAR ESKIN and SALVATORE J. STOLFO, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said COLUMBIA, and other valuable considerations unto me moving from said COLUMBIA, at or before the ensembling and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said COLUMBIA, its successors and assigns, the entire right, title and interest in and to the said invention as set forth and described in the specification forming a part of U.S. Patent Application Serial No. 10/352,342 for Letters Patent of the United States entitled "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY MONITORING WINDOWS REGISTRY ACCESSES" filed January 27, 2003, and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements, including all priority rights under the Paris Convention, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY

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- 1 -

PATENT
REEL: 014666 FRAME: 0774

PATENT
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Frank

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P. 3

AP34981 - 070050.2195

PATENT

MONITORING WINDOWS REGISTRY ACCESSES", do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said COLUMBIA, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COLUMBIA, its successors and assigns;

AND WE, the said "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY MONITORING WINDOWS REGISTRY ACCESSES", for the considerations aforesaid, do hereby covenant and agree to and with said COLUMBIA, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said COLUMBIA, its successors and assigns, may be required or necessary to more effectively secure to and vest in said COLUMBIA, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, benefits, privileges and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, I, the said FRANK APAP, have hereunto set my hand and seal on the date below written.

8/2/03
Date

Frank Apap
FRANK APAP

STATE OF NY
COUNTY OF NY : ss.:

BE IT KNOWN, that on this 12th day of August, 2003, before me personally came FRANK APAP, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HAS083858
Qualified in Queens County
Commission Expires July 29, 2006

Amy L. Haber
Notary Public

NY02:452593.1

- 2 -

PATENT
REEL: 014666 FRAME: 0775

PATENT
REEL: 028742 FRAME: 0765

AP34981 - 070050.2195

PATENT

IN WITNESS WHEREOF, I, the said ANDREW HONIG, have hereunto set my hand and seal on the date below written.

9/29/03

Date

Andrew Honig
ANDREW HONIG

STATE OF NY)
: ss.:
COUNTY OF NY)

BE IT KNOWN, that on this 29th day of September, 2003, before me personally came ANDREW HONIG, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HA5083858
Qualified in Queens County
Commission Expires July 29, 2006

Amy L. Haber
Notary Public

IN WITNESS WHEREOF, I, the said SHLOMO HERSHKOP, have hereunto set my hand and seal on the date below written.

Date

SHLOMO HERSHKOP

STATE OF _____)
: ss.:
COUNTY OF _____)

BE IT KNOWN, that on this ____ day of _____, 2003, before me personally came SHLOMO HERSHKOP, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Notary Public

PATENT
REEL: 014666 FRAME: 0776

PATENT
REEL: 028742 FRAME: 0766

AP34981 - 070050.2195

PATENT

IN WITNESS WHEREOF, I, the said ELEAZAR ESKIN, have hereunto set my hand and seal on the date below written.

9/11/03
Date

Eleazar Eskin
ELEAZAR ESKIN

STATE OF NY)
: ss.:
COUNTY OF NY)

BE IT KNOWN, that on this 11th day of September, 2003, before me personally came ELEAZAR ESKIN, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HA5083858
Qualified in Queens County
Commission Expires July 29, 2006

Amy L. Haber
Notary Public

IN WITNESS WHEREOF, I, the said SALVATORE J. STOLFO, have hereunto set my hand and seal on the date below written.

8/18/03
Date

Salvatore J. Stolfo
SALVATORE J. STOLFO

STATE OF NY)
: ss.:
COUNTY OF NY)

BE IT KNOWN, that on this 18th day of August, 2003, before me personally came SALVATORE J. STOLFO, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HA5083858
Qualified in Queens County
Commission Expires July 29, 2006

Amy L. Haber
Notary Public

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RECORDED: 11/06/2003

PATENT
REEL: 014666 FRAME: 0778

PATENT
REEL: 028742 FRAME: 0767

ASSIGNMENT

WHEREAS, WE, FRANK APAP, ANDREW HONIG, SHLOMO HERSHKOP, ELEAZAR ESKIN and SALVATORE J. STOLFO, citizens of the United States of America, whose post office addresses are 34 Heatherfield Road, Valley Stream, New York 11581; 13 Meadow Lane, East Windsor, New Jersey 08520; 742 Montgomery Street, Apartment #D2, Brooklyn, New York 11213; 935 Stanford Street, Santa Monica, California 90403; and 80 Kenilworth Road, Ridgewood, New Jersey 07450, respectively, have made an invention entitled "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY MONITORING WINDOWS REGISTRY ACCESSES" as set forth and described in U.S. Patent Application Serial No. 10/352,343 for Letters Patent filed January 27, 2003; and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "COLUMBIA"), having its principal place of business at 116th Street and Broadway, New York, New York 10027, is desirous of acquiring the whole right, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said FRANK APAP, ANDREW HONIG, SHLOMO HERSHKOP, ELEAZAR ESKIN and SALVATORE J. STOLFO, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said COLUMBIA, and other valuable considerations unto me moving from said COLUMBIA, at or before the sealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said COLUMBIA, its successors and assigns, the entire right, title and interest in and to the said invention as set forth and described in the specification forming a part of U.S. Patent Application Serial No. 10/352,342 for Letters Patent of the United States entitled "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY MONITORING WINDOWS REGISTRY ACCESSES" filed January 27, 2003, and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements, including all priority rights under the Paris Convention, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY

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PATENT

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PATENT

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Frank

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P. 3

AP34981 - 070050.2195

PATENT

MONITORING WINDOWS REGISTRY ACCESSES", do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said COLUMBIA, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COLUMBIA, its successors and assigns;

AND WE, the said "SYSTEM AND METHODS FOR ADAPTIVE MODEL GENERATION FOR DETECTING INTRUSION IN COMPUTER SYSTEMS BY MONITORING WINDOWS REGISTRY ACCESSES", for the considerations aforesaid, do hereby covenant and agree to and with said COLUMBIA, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said COLUMBIA, its successors and assigns, may be required or necessary to more effectively secure to and vest in said COLUMBIA, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, benefits, privileges and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, I, the said FRANK APAP, have hereunto set my hand and seal on the date below written.

8/2/03
Date

Frank Apap
FRANK APAP

STATE OF NY
COUNTY OF NY : ss.:

BE IT KNOWN, that on this 12th day of August, 2003, before me personally came FRANK APAP, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HA5083856
Qualified in Queens County
Commission Expires July 29, 2006

Amy L. Haber
Notary Public

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PATENT
REEL: 014666 FRAME: 0775

PATENT
REEL: 028742 FRAME: 0769

AP34981 - 070050.2195

PATENT

IN WITNESS WHEREOF, I, the said ANDREW HONIG, have hereunto set my hand and seal on the date below written.

Date

ANDREW HONIG

STATE OF _____)

: ss.:

COUNTY OF _____)

BE IT KNOWN, that on this ____ day of _____, 2003, before me personally came ANDREW HONIG, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Notary Public

IN WITNESS WHEREOF, I, the said SHLOMO HERSHKOP, have hereunto set my hand and seal on the date below written.

9/5/03

Date

SHLOMO HERSHKOP

STATE OF NY)

: ss.:

COUNTY OF NY)

BE IT KNOWN, that on this 5th day of September, 2003, before me personally came SHLOMO HERSHKOP, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Notary Public

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HA5063858
Qualified in Queens County
Commission Expires July 29, 2006

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PATENT

REEL: 014666 FRAME: 0777

PATENT

REEL: 028742 FRAME: 0770

AP34981 - 070050.2195

PATENT

IN WITNESS WHEREOF, I, the said ELEAZAR ESKIN, have hereunto set my hand and seal on the date below written.

9/11/03
Date

Eleazar Eskin
ELEAZAR ESKIN

STATE OF NY
COUNTY OF NY : ss.:

BE IT KNOWN, that on this 11th day of September, 2003, before me personally came ELEAZAR ESKIN, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 011A5003658
Qualified in Queens County
Commission Expires July 29, 2006

Amy L. Haber
Notary Public

IN WITNESS WHEREOF, I, the said SALVATORE J. STOLFO, have hereunto set my hand and seal on the date below written.

8/18/03
Date

Salvatore J. Stolfo
SALVATORE J. STOLFO

STATE OF NY
COUNTY OF NY : ss.:

BE IT KNOWN, that on this 18th day of August, 2003, before me personally came SALVATORE J. STOLFO, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 011A5003658
Qualified in Queens County
Commission Expires July 29, 2006

Amy L. Haber
Notary Public

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RECORDED: 11/06/2003

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REEL: 014666 FRAME: 0778

RECORDED: 08/07/2012

PATENT
REEL: 028742 FRAME: 0771